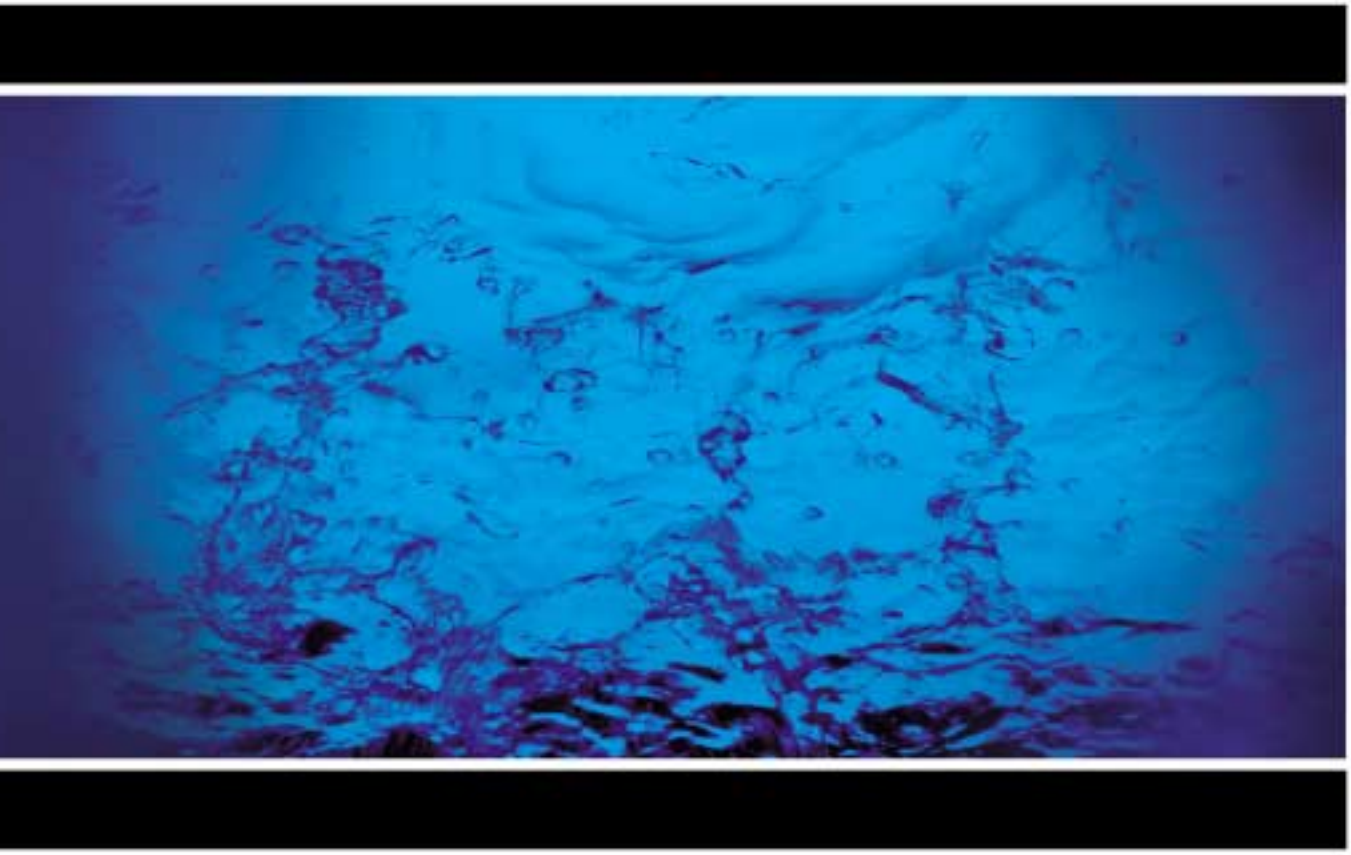
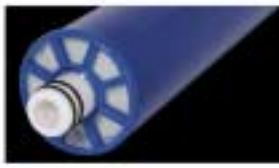
ROUltraTec-USA®
The Ultra Solution





2005 PRODUCT CATALOG

- » Reverse Osmosis Systems
- » Filtration Systems & Water Softeners
- » Disinfection Equipment & Supplies
- » Testing & Monitoring Equipment
- » Water Coolers
- » Membrane Housings
- » Brackets & Clips
- » Fittings
- » Filter Cartridges
- » Membranes
- » Components
- » Installation Supplies
- » Filter Housings
- » Pumps & Motors
- » Tanks
- » Valves

Mission Statement

At R.O. UltraTec USA, Inc., our mission is to engineer, manufacture, and provide innovative water treatment products and services of the highest quality and dependability, which deliver the greatest value to our ever-expanding customer base of distributors, dealers, and original equipment manufacturers (OEM's) worldwide.

Profile and History

Established in 1989 as a manufacturer and distributor of water treatment products, R.O. UltraTec is head-quartered with research, engineering, manufacturing, and support facilities in Fallbrook, California. While providing customers from around the world with high quality water purification products for Point-of-Use (POU) and Point-of-Entry (POE) applications, R.O. UltraTec has positioned itself to become a leading manufacturer of residential and commercial reverse osmosis systems, water softeners, filtration systems, membranes, membrane housings, and many other products.

R.O. UltraTec has a vision and a commitment for innovative product design, engineering, and manufacturing, which continues to earn the company increasing prominence in the industry. R.O. UltraTec's newest product lines include The Eliminator II™ Membrane Housing, The Champ™ Membrane Housing, The PuroTech™ Stainless Steel Membrane Housing, The ASD™ Whole-House Filtration & Conditioning System, Excalibur™ Filtration & Softening Systems, and a complete line of residential and commercial reverse osmosis membrane elements.

R.O. UltraTec's Advantages

R.O. UltraTec strives to provide you with the quality and durability you need to stay competitive, a wide selection of products in-stock and ready for delivery make R.O. UltraTec an excellent choice for your water treatment needs. R.O. UltraTec's unique expertise in customization, specialty design, and private label manufacturing provides the ultimate resource for many customers. When it comes to customer support and the results you are looking for, the satisfaction you will experience in dealing with R.O. UltraTec is second to none - guaranteed!

R.O. UltraTec USA, Inc. ▪ **T:** (760) 723-5417 ▪ **F:** (760) 728-5062 ▪ **E:** sales@roultratec.com ▪ **W:** www.roultratec.com ▪ 541 Industrial Way, Suite 1, Fallbrook, CA 92028

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RESIDENTIAL

Poseidon™ Reverse Osmosis Systems

Poseidon™ residential reverse osmosis systems demonstrate high quality and performance. **Poseidon™** systems significantly reduce bad taste, odor, arsenic, lead, chlorine, organic compounds, dissolved solids, metals, cysts, and nitrates, thus producing high quality treated water. **Poseidon™** systems use standardized high capacity components and are individually inspected and sanitized to meet the highest quality standards.

Features:

- » Feed Pressure Gauge
- » High Quality Components
- » Pre-Assembled
- » Private Labeling Available
- » 1-Year Manufacturer's Warranty
- » Made in the U.S.A.

Standard Equipment:

- » Membrane Element
- » Pressure Gauge
- » Long Reach Non-Air Gap Faucet
- » Tank Shut-Off Valve
- » Filter Housing Wrench
- » 3.2 Gallon Metal Storage Tank
- » Drain Saddle Clamp with 1/4" Nut
- » Nickel Plated Brass 1/2" Feed Water Adapter
- » **Eliminator II™** Membrane Housing

Poseidon™ 4 Stage Systems:

Stage 1: 10" Slim Line 5 Micron Sediment Filter
Stage 2: 10" Slim Line Carbon Block Cartridge
Stage 3: Reverse Osmosis Membrane Element
Stage 4: 10" Slim Line Carbon Block Cartridge

Poseidon™ 5 Stage Systems:

Stage 1: 10" Slim Line 5 Micron Sediment Filter
Stage 2: 10" Slim Line Carbon Block Cartridge
Stage 3: 10" Slim Line 1 Micron Sediment Filter
Stage 4: Reverse Osmosis Membrane Element
Stage 5: 10" Inline GAC Cartridge

Poseidon™ reverse osmosis systems are also available with a permeate or booster pump. Please specify voltage when ordering a system with a booster pump.

Installation:

All **Poseidon™** systems come with the necessary hardware for an easy and quick installation.

Actual Dimensions & Packaging:

18" x 18" x 19" 25 lbs.
Securely packaged in a generic cardboard box.

Technical Specifications			
Minimum Working Pressure:	40 PSI	Maximum Pressure:	80 PSI
Minimum NaCl Rejection:	96 %	Nominal NaCl Rejection:	98%
Maximum Hardness:	5 Grains / Gallon	pH Range:	4 - 10
Maximum TDS:	1000	Maximum Temperature:	105°F
The installation of a pressure regulator is highly recommended.			

***R.O. UltraTec** carries a complete line of Residential Reverse Osmosis and Water Filtration Systems.*

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RESIDENTIAL

PuroTech™ Reverse Osmosis Systems

PuroTech™ residential reverse osmosis systems are quality systems featured at an economical price. **PuroTech™** systems are ideal for all point-of-use applications. These systems use standard size, high capacity components and come pre-assembled.

Standard Equipment:

- **Stage 1:** 10" Slim Line 5 Micron Sediment
- **Stage 2:** 10" Slim Line GAC Carbon Cartridge
- **Stage 3:** 10" Slim Line Carbon Block
- **Stage 4:** Reverse Osmosis TFC Membrane Element
- **Stage 5:** 10" Inline GAC Carbon
- 3.2 gallon Metal Tank
- Long Reach Faucet
- Powder Coated Steel Bracket
- Manual Flush Valve
- Drain Saddle Clamp

Installation:

All **PuroTech™** systems come with the necessary hardware for an easy and quick installation.

Actual Dimensions:

14" x 17" x 23" 28 lbs. Securely packaged in a generic cardboard box.

Reduced Contaminants					
Barium	X	Lead	X	Radium	X
Chromium III & VI	X	Nitrates	X	Selenium	X
Fluoride	X	Nitrites	X	Total Dissolved Solids	X

Technical Specifications			
Minimum Working Pressure:	40 PSI	Maximum Pressure:	80 PSI
Minimum NaCl Rejection:	96 %	Nominal NaCl Rejection:	98%
Maximum Hardness:	5 Grains / Gallon	pH Range:	4 - 10
Maximum TDS:	1000	Maximum Temperature:	105°F
The installation of a pressure regulator is highly recommended.			

Part Number:	Description:
1A1001	Poseidon 4 Stage 10 GPD CTA Reverse Osmosis System
1A1002	Poseidon 4 Stage 16 GPD CTA Reverse Osmosis System
1A1003	Poseidon 4 Stage 20 GPD CTA Reverse Osmosis System
1A1004	Poseidon 4 Stage 18 GPD TFC Reverse Osmosis System
1A1005	Poseidon 4 Stage 25 GPD TFC Reverse Osmosis System
1A1006	Poseidon 4 Stage 35 GPD TFC Reverse Osmosis System
1A1007	Poseidon 4 Stage 50 GPD TFC Reverse Osmosis System
1A1008	Poseidon 4 Stage 70 GPD TFC Reverse Osmosis System
1A1009	Poseidon 4 Stage 100 GPD TFC Reverse Osmosis System
1A1010	Poseidon 5 Stage 18 GPD TFC Reverse Osmosis System
1A1011	Poseidon 5 Stage 25 GPD TFC Reverse Osmosis System
1A1012	Poseidon 5 Stage 35 GPD TFC Reverse Osmosis System
1A1013	Poseidon 5 Stage 50 GPD TFC Reverse Osmosis System
1A1014	Poseidon 5 Stage 70 GPD TFC Reverse Osmosis System
1A1015	Poseidon 5 Stage 100 GPD TFC Reverse Osmosis System
1A1016	Poseidon 4 Stage 18 GPD TFC w/ Permeate Pump Reverse Osmosis System
1A1017	Poseidon 4 Stage 25 GPD TFC w/ Permeate Pump Reverse Osmosis System
1A1018	Poseidon 4 Stage 35 GPD TFC w/ Permeate Pump Reverse Osmosis System
1A1019	Poseidon 4 Stage 50 GPD TFC w/ Permeate Pump Reverse Osmosis System

Part Number:	Description:
1A1020	Poseidon 4 Stage 70 GPD TFC w/ Permeate Pump Reverse Osmosis System
1A1021	Poseidon 4 Stage 100 GPD TFC w/ Permeate Pump Reverse Osmosis System
1A1022	Poseidon 5 Stage 18 GPD TFC w/ 6800 Booster Pump Reverse Osmosis System
1A1023	Poseidon 5 Stage 25 GPD TFC w/ 6800 Booster Pump Reverse Osmosis System
1A1024	Poseidon 5 Stage 35 GPD TFC w/ 6800 Booster Pump Reverse Osmosis System
1A1025	Poseidon 5 Stage 50 GPD TFC w/ 6800 Booster Pump Reverse Osmosis System
1A1026	Poseidon 5 Stage 70 GPD TFC w/ 8800 Booster Pump Reverse Osmosis System
1A1027	Poseidon 5 Stage 100 GPD TFC w/ 8800 Booster Pump Reverse Osmosis System
1A1028	PuroTech 5 Stage 18 GPD TFC Reverse Osmosis System
1A1029	PuroTech 5 Stage 25 GPD TFC Reverse Osmosis System
1A1030	PuroTech 5 Stage 35 GPD TFC Reverse Osmosis System
1A1031	PuroTech 5 Stage 50 GPD TFC Reverse Osmosis System
1A1032	PuroTech 5 Stage 70 GPD TFC Reverse Osmosis System
1A1033	PuroTech 5 Stage 100 GPD TFC Reverse Osmosis System

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COMMERCIAL

Titan™ Reverse Osmosis Systems

Titan™ reverse osmosis systems are known for their excellent pre-treatment design, quality, and high performance. These systems are designed for higher recovery rates and minimum energy consumption. **Titan™** systems offer greater savings with lower maintenance and operation costs.

Features:

- Computer Aided Design
- High System Recovery
- Low Energy Consumption
- Tested and Sanitized
- 1-Year Manufacturer's Warranty
- Made in the U.S.A.

Standard Equipment:

- Thin Film Composite (TFC®) High Flow, Low Energy reverse osmosis membranes reject a significant amount of organics, silica and more.
- PVC or Stainless Steel Housings which are corrosion resistant for longer life.
- Pump & Motor for optimal energy efficiency and quiet operation.
- Expandable Designs which serve water needs from 200 gallons per day to 50,000 gallons per day.
- Pre-filtration consists of replaceable sediment filters and carbon cartridges.
- Pressure and Quality indicators display the system's operating pressure and water quality.

Applications:

- Food & Beverage: Superior taste and increased cost savings.
- Aquaculture: Controls the quality of water for improved growing conditions.
- Aquariums: Assists with the removal of silica.
- Ice Production/Drinking Water: Reduces scaling, improves taste and clarity.
- Restaurants: Improves steamer operations.
- Humidification: Reduces scaling and dusting.
- Grocery Stores: Prevents scaling in produce misters.
- Pre-treatment: For use in deionization systems.
- Boilers: Improves energy efficiency.
- Vehicle Wash: Provides spot-free rinses.

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Reverse Osmosis Systems

COMMERCIAL

Commercial Model	Design	Gallons Per Day	Dimensions (approx)	Weight (approx)	Recycle Line	Auto Flush	Element Size (in)	Elements (quantity)	Motor HP	Voltage	Hertz	Connections Feed	Product	Waste
Titan 200 1A2001	Wall Mount	200	7" x 22" x 31"	45 lbs.	No	Yes	2514 HF3	1	NA	110/220	50/60	1/4"	1/4"	1/4"
Titan 300 1A2002	Wall Mount	300	7" x 28" x 33"	50 lbs.	No	Yes	2521 HF3	1	NA	110/220	50/60	3/8"	3/8"	1/4"
Titan 500 1A2003	Vertical	500	14" x 20" x 27"	65 lbs.	Optional	NA	2521 HF1	2	1/3	110/220	50/60	3/4"	3/8"	3/8"
Titan 1000 1A2004	Vertical	1,000	14" x 20" x 27"	70 lbs.	Optional	NA	2521 HF1	3	1/2	110/220	50/60	3/4"	3/8"	3/8"
Titan 1500 1A2005	Vertical	1,500	19" x 23" x 46"	105 lbs.	Optional	NA	2540 HF1	2	3/4	110/220	50/60	3/4"	3/8"	3/8"
Titan 1800 1A2006	Vertical	1,800	19" x 23" x 46"	90 lbs.	Yes	NA	4040 HF1	1	3/4	110/220	50/60	3/4"	3/8"	3/8"
Titan 2500 1A2007	Vertical	2,500	19" x 23" x 46"	115 lbs.	Optional	NA	2540 HF1	3	3/4	110/220	50/60	3/4"	3/8"	3/8"
Titan 4000 1A2008	Vertical	4,000	30" x 38" x 47"	235 lbs.	Optional	Optional	4040 HF1	2	1	110/220	50/60	3/4"	1"	1"
Titan 5000 1A2009	Vertical	5,000	30" x 38" x 47"	250 lbs.	Optional	Optional	4040 HF1	3	1.5	110/220	50/60	3/4"	1"	1"
Titan 7000 1A2010	Vertical	7,000	30" x 38" x 47"	265 lbs.	Optional	Optional	4040 HF1	4	1.5	110/220	50/60	3/4"	1"	1"
Titan 10000 1A2011	Station	10,000	49" x 33" x 54"	385 lbs.	Optional	Optional	4040 HF1	6	3	220	60	3/4"	1"	1"
Titan 15000 1A2012	Station	15,000	63" x 39" x 54"	400 lbs.	Optional	Optional	4040 HF1	8	3	220	60	2"	1"	1"
Titan 20000 1A2013	Station	20,000	63" x 39" x 54"	415 lbs.	Optional	Optional	4040 HF1	10	5	220/440	60	2"	1"	1"
Titan 30000 1A2014	Horizontal	30,000	41" x 143" x 80"	NA	Optional	Optional	4040 HF1	20	5	220/440	60	2"	1.5"	1.5"
Titan 40000 1A2015	Horizontal	40,000	41" x 143" x 80"	NA	Optional	Optional	4040 HF1	24	6	220/440	60	2"	1.5"	1.5"
Titan 50000 1A2016	Horizontal	50,000	41" x 143" x 80"	NA	Optional	Optional	4040 HF1	28	7	220/440	60	2"	1.5"	1.5"

General Operating & Testing Specifications

Minimum Feed Pressure:	35 PSI	Operating Pressure:	150 PSI
Minimum NaCl % Rejection:	96 %	Nominal NaCl % Rejection:	98%
Maximum Hardness:	15 Grains / Gallon	pH Range:	2 - 11
Maximum NaCl TDS:	2000 PPM	Maximum Temperature:	105°F

Permeate flow and salt rejection based on the following test conditions: 550 PPM treated tap water. 150 PSI, 77°F (25°C), pH 7.

Optional Features for Titan™ Reverse Osmosis Systems

Part Number:	Description:
1A4008	Auto-Flush Titan 4000 - 7,000 System Option
1A4009	Concentrate Recirculate Titan 500 - 7,000 System Option
1A4010	Concentrate Recirculate w/ Flow Meter Titan 10,000 System Option
1A4011	0-2 Product Flow Meter Titan 500 - 2,500 System Option
1A4012	0-5 Concentrate Flow Meter Titan 500 - 2,500 System Option
1A4013	Panel Mount TDS Meter Titan 500 - 2,500 System Option
1A4014	High Pressure Switch (Tank Switch) Titan 500 - 50,000 System Option
1A4015	Stainless Steel Housing (Each) Titan 200 - 20,000 System Option

*Our **Excalibur™ Pre-Treatment Equipment** is the perfect compliment to our **Titan™ Reverse Osmosis Systems.***

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COMMERCIAL

Titan™ 200 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** One 2.5" x 14" TFC HF3 Membrane – For maximum rejection of impurities and high flow.
- **Membrane Housing:** One 2.5" x 14" Champ™ Membrane Housing – Features a patented design and requires no tools when servicing.
- **Pump:** One Aquatec® 8800 Booster Pump 110 volt 60 hertz – Designed for continuous use and features built in protection for loss of feed water pressure.
- **Frame:** One Aluminum White Powder Coated Triple Bracket – Corrosion resistant and light weight. Optional floor standing frame.
- **Sediment Filter:** One 2.5" x 20" Slim Line 5 Micron Polypropylene Filter – Removes sediments and protects the system.
- **Carbon Block:** One 2.5" x 20" Slim Line 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Sediment Filter:** One 2.5" x 20" Slim Line 1 Micron Polypropylene Filter – Removes sediments and protects the system down to 1 micron.
- **Filter Housing:** Three 2.5" x 20" Slim Line Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauge:** One 1.5" 0-200 PSI Pressure Gauge – For accurate monitoring of the system's operating pressure.
- **Tank Switch:** One Aquatec® Tank Pressure Switch w/ 1/4" JG Ports 20-40 PSI – For automatic operation with a pressure tank.
- **Electronic Shut-Off Valve:** One Aquatec® Electronic 24 Volt Solenoid Valve 1/4" – Automatically shuts off the feed water to the system.
- **Auto Flush Timer Valve:** One Aquatec® Auto-Flush Timer Valve 700 ml/min 1/4" – Regulates the product to waste ratio (system's recovery) and automatically flushes the membrane on start-up.
- **Transformer:** One Aquatec® 8800 2 Amp 110 Volt 60 Hertz 24 VAC Transformer.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **TDS Meter:** One Inline Dual TDS Meter w/ 1/4" Quick Connect – For monitoring of feed water and product water quality.
- **Stainless Steel Housing:** One 2.5" x 14" PuroTech™ Stainless Steel Membrane Housing 3/8" FNPT

Titan 200
1A2001

System Specifications			
Model	Titan™ 200	Design	Wall Mount
Gallons Per Day	200 @ 77°F	Dimensions (Approx.)	7" x 22" x 31"
Weight (Approx.)	45 lbs.	Concentrate Re-Circulate	N/A
Auto Flush	Standard	Element Size (in.)	2514 TFC HF3
Elements (Qty.)	1	Motor HP	N/A
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	1/4"	Product Connection	1/4"
Waste Connection	1/4"		

System Operating Specifications	
Minimum Feed Pressure	35 psi
Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	1
Maximum Hardness	15 Grains / Gallon
Maximum TDS	1000 ppm
Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%
Maximum Feed (GPM)	3
pH Range	3 - 11
Maximum Temperature	105 °F

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Titan™ 300 GPD Reverse Osmosis Systems

Titan 300
1A2002

Standard Features:

- **Membrane:** One 2.5" x 21" TFC HF3 Membrane – For maximum rejection of impurities and high flow.
- **Membrane Housing:** One 2.5" x 21" Champ™ Membrane Housing – Features a patented design and requires no tools when servicing.
- **Pump:** Two Aquatec® 8800 Booster Pumps 110 volt 60 hertz – Designed for continuous use and features built in protection for loss of feed water pressure.
- **Frame:** One Aluminum White Powder Coated Triple Bracket – Corrosion resistant and light weight. Optional floor standing frame.
- **Sediment Filter:** One 2.5" x 20" Slim Line 5 Micron Polypropylene Filter – Removes sediments and protects the system.
- **Carbon Block:** One 2.5" x 20" Slim Line 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Sediment Filter:** One 2.5" x 20" Slim Line 1 Micron Polypropylene Filter – Removes sediments and protects the system down to 1 micron.
- **Filter Housing:** Three 2.5" x 20" Slim Line Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauge:** One 1.5" 0-200 PSI Pressure Gauge – For accurate monitoring of the system's operating pressure.
- **Tank Switch:** Two Aquatec® Tank Pressure Switches w/ 3/8" JG Ports 20-40 PSI – For automatic operation with a pressure tank.
- **Electronic Shut-Off Valve:** One Aquatec® Electronic 24 Volt Solenoid Valve 3/8" – Automatically shuts off the feed water to the system.
- **Auto Flush Timer Valve:** One Aquatec® Auto-Flush Timer Valve 700 ml/min 1/4" – Regulates the product to waste ratio (system's recovery) and automatically flushes the membrane.
- **Transformer:** Two Aquatec® 8800 2 Amp 110 Volt 60 Hertz 24 VAC Transformers.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **TDS Meter:** One Inline Dual TDS Meter w/ 1/4" Quick Connect – For monitoring of feed water and product water quality.
- **Stainless Steel Housing:** One 2.5" x 21" PuroTech™ Stainless Steel Membrane Housing 3/8" FNPT

System Specifications			
Model	Titan™ 300	Design	Wall Mount
Gallons Per Day	300 @ 77°F	Dimensions (Approx.)	7" x 28" x 33"
Weight (Approx.)	50 lbs.	Concentrate Re-Circulate	N/A
Auto Flush	Standard	Element Size (in.)	2521 TFC HF1
Elements (Qty.)	1	Motor HP	N/A
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/8"	Product Connection	3/8"
Waste Connection	1/4"		

System Operating Specifications	
Minimum Feed Pressure	35 psi
Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	1
Maximum Hardness	15 Grains / Gallon
Maximum TDS	1000 ppm
Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%
Maximum Feed (GPM)	3
pH Range	3 - 11
Maximum Temperature	105 °F

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COMMERCIAL

Titan™ 500 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** Two 2.5" x 21" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Two 2.5" x 21" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump:** One 401 Fluid-O-Tech® 2.3 GPM Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 1/3 HP Motor 110 or 220 Volt 50 or 60 Hertz
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 10" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 10" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Filter Housing:** Two 4.5" x 10" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4", Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Two 2.5" x 21" PuroTech™ Stainless Steel Membrane Housings 3/8" FNPT
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Concentrate Re-Circulate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan 500
1A2003

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	1.5	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	3
pH Range	3 - 11	Maximum Temperature	105 °F

System Specifications			
Model	Titan 500	Design	Vertical
Ga7llons Per Day	500 @ 77°F	Dimensions (Approx.)	14" x 20" x 27"
Weight (Approx.)	65 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	N/A	Element Size (in.)	2521 TFC HF1
Elements (Qty.)	2	Motor HP	1/3
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

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COMMERCIAL

Titan™ 1000 GPD Reverse Osmosis Systems

Titan 1000
1A2004

Standard Features:

- **Membrane:** Three 2.5" x 21" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Three 2.5" x 21" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump:** One 601 Fluid-O-Tech® 3.2 GPM Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 1/2 HP Motor 110 or 220 Volt 50 or 60 Hertz
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 10" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 10" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Filter Housing:** Two 4.5" x 10" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Three 2.5" x 21" PuroTech™ Stainless Steel Membrane Housings 3/8" FNPT
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Concentrate Re-Circulate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

System Specifications

Model	Titan™ 1000	Design	Vertical
Gallons Per Day	1000 @ 77°F	Dimensions (Approx.)	14" x 20" x 27"
Weight (Approx.)	70 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	N/A	Element Size (in.)	2521 TFC HF1
Elements (Qty.)	3	Motor HP	1/2
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

System Operating Specifications

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	1.5	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	3
pH Range	3 - 11	Maximum Temperature	105 °F

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COMMERCIAL

Titan™ 1500 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** Two 2.5" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Two 2.5" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump:** One 601 Fluid-O-Tech® 3.2 GPM Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 10" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Filter Housing:** Two 4.5" x 20" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Two 2.5" x 40" PuroTech™ Stainless Steel Membrane Housings 3/8" FNPT
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Concentrate Re-Circulate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan 1500
1A2005

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	2	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	3
pH Range	3 - 11	Maximum Temperature	105 °F

System Specifications			
Model	Titan™ 1500	Design	Vertical
Gallons Per Day	1500 @ 77°F	Dimensions (Approx.)	19" x 23" x 46"
Weight (Approx.)	105 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	N/A	Element Size (in.)	2540 TFC HF1
Elements (Qty.)	2	Motor HP	3/4
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

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COMMERCIAL

Titan™ 1800 GPD Reverse Osmosis Systems

Titan 1800
1A2006

Standard Features:

- **Membrane:** One 4" x 40" TFC HF1 Membrane – For maximum rejection of impurities and high flow.
- **Membrane Housing:** One 4" x 40" Champ™ Membrane Housing – Features a patented design and requires no tools when servicing.
- **Pump:** One 1001 Fluid-O-Tech® Rotary Brass Vane Pump 5.3 GPM – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz – Customer must specify voltage upon ordering.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Filter Housing:** Two 4.5" x 20" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Concentrate Recirculate:** One 1/4" Brass Needle Valve – This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meter – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Stainless Steel Housings:** One 4" x 40" PuroTech™ Stainless Steel Housing 1/2" FNPT.

System Specifications

Model	Titan™ 1800	Design	Vertical
Gallons Per Day	1800 @ 77°F	Dimensions (Approx.)	19" x 23" x 46"
Weight (Approx.)	90 lbs.	Concentrate Re-Circulate	Standard
Auto Flush	N/A	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	1	Motor HP	3/4
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

System Operating Specifications

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	3	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	6
pH Range	3 - 11	Maximum Temperature	105 °F

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COMMERCIAL

Titan™ 2500 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** Three 2.5" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Three 2.5" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump:** One 1001 Fluid-O-Tech® 5.3 GPM Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Filter Housing:** Two 4.5" x 20" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Switch:** One Manual On and Off Switch
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Three 2.5" x 40" PuroTech™ Stainless Steel Membrane Housings 3/8" FNPT
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Concentrate Re-Circulate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan 2500
1A2007

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	4	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	10
pH Range	3 - 11	Maximum Temperature	105 °F

System Specifications			
Model	Titan™ 2500	Design	Vertical
Gallons Per Day	2500 @ 77°F	Dimensions (Approx.)	19" x 23" x 46"
Weight (Approx.)	115 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	N/A	Element Size (in.)	2540 TFC HF1
Elements (Qty.)	3	Motor HP	3/4
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

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COMMERCIAL

Titan™ 4000 GPD Reverse Osmosis Systems

Titan 4000
1A2008

Standard Features:

- **Membrane:** Two 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Two 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 1 HP Multistage Pump and Motor 110 or 220 volt 50 or 60 hertz 1 Phase – Designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz – Customer must specify voltage upon ordering.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Sediment Filter:** One 4.5" x 20" Big White 1 Micron Sediment Filter – Removes sediments and protects the system down to 1 micron.
- **Filter Housing:** Three 4.5" x 20" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/2" Stainless Steel Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Minitrol® Computer Controller 110 or 220 volt with pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-10 GPM) & One Waste (0-10 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Two 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Recirculate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

System Operating Specifications

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	6	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	15
pH Range	3 - 11	Maximum Temperature	105 °F

System Specifications

Model	Titan™ 4000	Design	Vertical
Gallons Per Day	4000 @ 77°F	Dimensions (Approx.)	30" x 38" x 47"
Weight (Approx.)	235 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	2	Motor HP	1
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	1"
Waste Connection	1"		

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Titan™ 5000 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** Three 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Three 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 1.5 HP Multistage Pump and Motor 110 or 220 volt 50 or 60 hertz 1 Phase – Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Sediment Filter:** One 4.5" x 20" Big White 1 Micron Sediment Filter – Removes sediments and protects the system down to 1 micron.
- **Filter Housing:** Three 4.5" x 20" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/2" Stainless Steel Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Minitrol Computer Controller 110 or 220 volt with pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-10 GPM) & One Waste (0-10 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Three 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square® D High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Recirculate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan 5000
1A2009

System Specifications			
Model	Titan™ 5000	Design	Vertical
Gallons Per Day	5000 @ 77°F	Dimensions (Approx.)	30" x 38" x 47"
Weight (Approx.)	250 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	3	Motor HP	1.5
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	1"
Waste Connection	1"		

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	7	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	15
pH Range	3 - 11	Maximum Temperature	105 °F

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COMMERCIAL

Titan™ 7000 GPD Reverse Osmosis Systems

Titan 7000
1A2010

Standard Features:

- **Membrane:** Four 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Four 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 1.5 HP Multistage Pump and Motor 110 or 220 volt 50 or 60 hertz 1 Phase – Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 20" Big White 10 Micron Carbon Block – Removes Chlorine, odor, and taste from incoming feed water.
- **Sediment Filter:** One 4.5" x 20" Big White 1 Micron Sediment Filter – Removes sediments and protects the system down to 1 micron.
- **Filter Housing:** Three 4.5" x 20" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/2" Stainless Steel Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Minitrol® Computer Controller 110 or 220 volt with pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-10 GPM) & One Waste (0-10 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Four 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Recirculate:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	10	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	15
pH Range	3 - 11	Maximum Temperature	105 °F

System Specifications			
Model	Titan™ 7000	Design	Vertical
Gallons Per Day	7000 @ 77°F	Dimensions (Approx.)	30" x 38" x 47"
Weight (Approx.)	265 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	4	Motor HP	1.5
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	1"
Waste Connection	1"		

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COMMERCIAL

Titan™ 10,000 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** Six 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Six 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 3 HP Multistage Pump and Motor 220 volt 60 hertz 1 Phase – Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 18" FSI® Bag 10 Micron Filter – Removes sediments and protects the system.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system down to 5 micron.
- **Filter Housing:** One 4.5" x 20" Big Grey Double O-Ring Filter Housing – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Square D® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 220 Volt 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/2" Stainless Steel Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Rotrol S-150 Computer Controller 220 volt with built-in TDS monitor, pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-10 GPM) & One Waste (0-10 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Six 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 PSI and stops when the pressure reaches 60 PSI.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Re-Circulate w/ 0-5 GPM Flow Meter:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan 10000
1A2011

System Specifications			
Model	Titan™ 10000	Design	Station
Gallons Per Day	10000 @ 77°F	Dimensions (Approx.)	49" x 33" x 54"
Weight (Approx.)	385 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	6	Motor HP	3
Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1"
Waste Connection	1"		

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	14	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	30
pH Range	3 - 11	Maximum Temperature	105 °F

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COMMERCIAL

Titan™ 15,000 GPD Reverse Osmosis Systems

Titan 15000
1A2012

Standard Features:

- **Membrane:** Eight 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Eight 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 3 HP Multistage Pump and Motor 220 volt 60 hertz 1 Phase – Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 18" FSI® Bag 10 Micron Filter – Removes sediments and protects the system.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system down to 5 micron.
- **Filter Housing:** One 4.5" x 20" Big Grey Double O-Ring Filter Housing – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Square D® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 220 Volt 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/2" Stainless Steel Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Rotrol S-150 Computer Controller 220 volt with built-in TDS monitor, pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-10 GPM) & One Waste (0-10 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Eight 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 PSI and stops when the pressure reaches 60 PSI.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Re-Circulate w/ 0-5 GPM Flow Meter:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

System Operating Specifications

Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	21	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	30
pH Range	3 - 11	Maximum Temperature	105 °F

System Specifications

Model	Titan™ 15000	Design	Station
Gallons Per Day	15000 @ 77°F	Dimensions (Approx.)	63" x 39" x 54"
Weight (Approx.)	400 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	8	Motor HP	3
Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1"
Waste Connection	1"		

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COMMERCIAL

Titan™ 20,000 GPD Reverse Osmosis Systems

Standard Features:

- **Membrane:** Ten 4" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Ten 4" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Pump & Motor:** One Goulds® 5 HP Multistage Pump and Motor 220 volt 60 hertz 3 Phase – Designed for continuous high pressures.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 18" FSI® Bag 10 Micron Filter – Removes sediments and protects the system.
- **Sediment Filter:** One 4.5" x 20" Big White 5 Micron Sediment Filter – Removes sediments and protects the system down to 5 micron.
- **Filter Housing:** One 4.5" x 20" Big Grey Double O-Ring Filter Housing – Offers durability and improved sealing capabilities.
- **Pressure Gauges:** Two 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Square D® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 220 Volt 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 3/4" Stainless Steel Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Computer Controller:** One Rotrol S-150 Computer Controller 220 volt with built-in TDS monitor, pre-treat lockout, tank full contacts, low pressure monitoring, and alarm.
- **Flow Meters:** One Product (0-20 GPM) & One Waste (0-20 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Ten 4" x 40" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 PSI and stops when the pressure reaches 60 PSI.
- **Float Switch:** One Mechanical Float Switch – For atmospheric storage tank applications.
- **Auto Flush:** This feature will flush the system's membranes with the feedwater, thus extending membrane life.
- **Concentrate Re-Circulate w/ 0-10 GPM Flow Meter:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan 20000
1A2013

System Specifications			
Model	Titan™ 20000	Design	Station
Gallons Per Day	20000 @ 77°F	Dimensions (Approx.)	63" x 39" x 54"
Weight (Approx.)	415 lbs.	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	10	Motor HP	5
Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1"
Waste Connection	1"		

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	30	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	50
pH Range	3 - 11	Maximum Temperature	105 °F

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COMMERCIAL

Titan™ 30,000, 40,000, 50,000 GPD Reverse Osmosis Systems

System Operating Specifications			
Minimum Feed Pressure	35 psi	Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	30	Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm	Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%	Maximum Feed (GPM)	50
pH Range	3 - 11	Maximum Temperature	105 °F

Titan 30000
1A2014

Titan 40000
1A2015

Titan 50000
1A2016

Standard Features:

- **Membrane:** 4" x 40" TFC HF1 Membranes.
- **Membrane Housing:** 4" x 80" Membrane Housings.
- **Pump & Motor:** Grundfos® 5-7 HP Motor and Stainless Steel Pump.
- **Frame:** Aluminum White Powder Coated Frame.
- **Bag Filter:** 32" Rosendale® Bag Filter 10 Micron Filter.
- **Cartridge Filter:** 2.5" x 40" 5 Cartridge Filter 5 Micron.
- **Chemical Injection:** ChemTech 30 Gallon Chemical Feed System.
- **Pressure Gauges:** 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and 1.5" 0-160 Top Mount Dry Gauges.
- **Low Pressure Switch:** Square D® Low Pressure Switch.
- **Solenoid Valve:** Solenoid Valve with Manual Override.
- **Computer Controller:** Rotrol S-150 Computer Controller 220 volt with built-in TDS monitor, pre-treat lockouts, tank full contacts, magnetic motor starter, low pressure monitoring, and alarms.
- **Flow Meters:** One Product (0-20 GPM) & One Waste (0-20 GPM) Flow Meters.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** 4" x 80" PuroTech™ Stainless Steel Membrane Housings 1/2" FNPT.
- **High Pressure Switch:** One Square D® High Pressure Switch.
- **Float Switch:** One Mechanical Float Switch.
- **Auto Flush:** This feature will flush the system's membranes with the feed-water, thus extending membrane life.
- **Concentrate Re-Circulate w/ 0-10 GPM Flow Meter:** This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.

Titan™ 30,000 System Specifications					
Model	Titan™ 30000	Design	Horizontal	Gallons Per Day	30000 @ 77°F
Dimensions (Approx.)	41" x 143" x 80"	Weight (Approx.)	NA	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1	Elements (Qty.)	20
Motor HP	5	Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1.5"	Waste Connection	1.5"

Titan™ 40,000 System Specifications					
Model	Titan™ 40000	Design	Horizontal	Gallons Per Day	40000 @ 77°F
Dimensions (Approx.)	41" x 143" x 80"	Weight (Approx.)	NA	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1	Elements (Qty.)	24
Motor HP	6	Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1.5"	Waste Connection	1.5"

Titan™ 50,000 System Specifications					
Model	Titan™ 50000	Design	Horizontal	Gallons Per Day	50000 @ 77°F
Dimensions (Approx.)	41" x 143" x 80"	Weight (Approx.)	NA	Concentrate Re-Circulate	Optional
Auto Flush	Optional	Element Size (in.)	4040 TFC HF1	Elements (Qty.)	28
Motor HP	7	Voltage	220	Hertz	60
Feed Connection	2"	Product Connection	1.5"	Waste Connection	1.5"

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INDUSTRIAL

Industrial Reverse Osmosis Systems

Our Industrial Reverse Osmosis Systems provide an efficient and economical solution for applications ranging in size from 34,000 to 288,000 GPD. High quality components, easy-to-use features, as well as an expandable design make our Industrial Reverse Osmosis Systems the premier choice for industrial water purification applications.

Standard Features:

- Horizontal Skid Mounted
- Durable & Efficient Stainless Steel Pump
- US Motor 220 Volt 60 Hertz 3 Phase
- FRP Housings
- Liquid Filled Gauges
- Thin Film Composite Membrane Elements
- Water Quality TDS Meter
- High Pressure Piping
- Stainless Steel Control Valve
- Panel Mount Flow Meters
- Low & High Pressure Protection
- Automatic Flush on Shut down
- Sample Ports on Permeate Lines
- Manual & Auto Operation
- 5 Micron Pre-Filtration
- Stainless Steel Feed Water Temperature Gauge
- Anti-Scalant Injection System
- Nema 12 Electrical Enclosures

Optional Features:

- Stainless Steel Housings
- Stainless steel Submersible Pump
- Concentrate Recycle Valve
- Stainless Steel Frame
- Alternate 220/240/415/440 50 Hertz 3 Phase
- Cleaning Ports
- Cleaning/Sanitizing System
- Nema Four Electrical Enclosures
- Cellulose Tri-Acetate Elements
- Ultrafiltration Elements
- Nanofiltration Elements
- Chemical Feed System
- Ph Monitor
- Storage Tank with Level Control
- Ultraviolet System
- Re-pressurization System
- System Pre-treatment
- System Post-treatment
- Permeate Diverted to Drain
- Wooden Crate or Container

Industrial Reverse Osmosis Systems

Industrial Model	Gallons Per Day	Dimensions (Inches) Height	Depth	Width	Inlet	Recovery	Membrane	Quantity	3Ph 60Hz 208-230-460
1A3001	34,000	66	42	100	2.0”	65%	8.0 x 40	4	10 HP
1A3002	45,000	66	42	140	2.0”	65%	8.0 x 40	6	15 HP
1A3003	58,000	72	48	140	2.0”	65%	8.0 x 40	8	20 HP
1A3004	70,000	72	60	200	3.0”	65%	8.0 x 40	9	20 HP
1A3005	120,000	72	60	200	3.0”	65%	8.0 x 40	16	30 HP
1A3006	144,000	72	60	200	3.0”	65%	8.0 x 40	18	30 HP
1A3007	201,000	66	42	290	4.0”	65%	8.0 x 40	24	50 HP
1A3008	260,000	66	42	290	4.0”	65%	8.0 x 40	34	50 HP

*All specifications are approximate and subject to revision due to final design considerations.

Initial water production based upon pretreated feed water, 225 psi applied pressure, 77°F (25°C) Incoming water temperature, 1,000 ppm NaCl, 10% recovery and 0 psi product pressure.

Water production decreases approximately 1.5% per 1° F(3% per 1° C) incoming water temperature drop.

*FINAL DESIGN, RECOVERY AND FINAL PRICE MAY DEPEND ON WATER ANALYSIS PROVIDED BY CUSTOMER

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SPECIALTY

Titan™ Wall Mount 1000 Reverse Osmosis System

Titan 1000
1A4001

Standard Features:

- **Membrane:** One 4" x 21" TFC HF1 Membrane – For maximum rejection of impurities and high flow.
- **Membrane Housing:** One 4" x 21" Champ™ Membrane Housing – Features a patented design and requires no tools when servicing.
- **Pump:** One 1001 Fluid-O-Tech® Rotary Brass Vane Pump 5.3 GPM – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz – Customer must specify voltage upon ordering.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 2.5 " x 20" Slim Line 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Filter Housing:** One 2.5" x 20" Slim Line Double O-Ring Filter Housing – Offers durability and improved sealing capabilities.
- **Pressure Gauge:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Square D® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Concentrate Recirculate:** One 1/4" Brass Needle Valve – This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Switch:** One Manual On and Off Switch.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

System Specifications

Model	Titan™ Wall Mount 1000	Design	Wall Mount
Gallons Per Day	1000 @ 77°F	Dimensions (Approx.)	8" x 28" x 36"
Weight (Approx.)	70 lbs.	Concentrate Re-Circulate	Standard
Auto Flush	Standard	Element Size (in.)	4021 TFC HF1
Elements (Qty.)	1	Motor HP	3/4
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

System Operating Specifications

Minimum Feed Pressure	35 psi
Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	1.5
Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm
Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%
Maximum Feed (GPM)	6
pH Range	3 - 11
Maximum Temperature	105 °F

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SPECIALTY

Titan™ Wall Mount 2000 Reverse Osmosis System

Standard Features:

- **Membrane:** One 4" x 40" TFC HF1 Membrane – For maximum rejection of impurities and high flow.
- **Membrane Housing:** One 4" x 40" Champ® Membrane Housing – Features a patented design and requires no tools when servicing.
- **Pump:** One 1001 Fluid-O-Tech® Rotary Brass Vane Pump 5.3 GPM – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 3/4 HP Motor 110 or 220 Volt 50 or 60 Hertz – Customer must specify voltage upon ordering.
- **Frame:** One Aluminum White Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 2.5 " x 20" Slim Line 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Filter Housing:** One 2.5" x 20" Slim Line Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauge:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One Square D® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **High Pressure Switch:** One Square D® High Pressure Switch – Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Concentrate Recirculate:** One 1/4" Brass Needle Valve – This feature offers a higher recovery rate for the system by taking a % of the waste water and feeding it back into the system.
- **Flow Meters:** One Product (0-2 GPM) & One Waste (0-5 GPM) Flow Meters – Enables operator to accurately adjust product to waste ratio and monitor systems performance.
- **Switch:** One Manual On and Off Switch.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Titan 2000
1A4002

System Operating Specifications	
Minimum Feed Pressure	35 psi
Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	3
Maximum Hardness	15 Grains / Gallon
Maximum TDS	1000 ppm
Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%
Maximum Feed (GPM)	8
pH Range	3 - 11
Maximum Temperature	105 °F

System Specifications			
Model	Titan™ Wall Mount 2000	Design	Wall Mount
Gallons Per Day	2000 @ 77°F	Dimensions (Approx.)	8" x 28" x 45"
Weight (Approx.)	80 lbs.	Concentrate Re-Circulate	Standard
Auto Flush	Standard	Element Size (in.)	4040 TFC HF1
Elements (Qty.)	1	Motor HP	3/4
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

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SPECIALTY

Spot-Free Low Pressure System

Spot-Free Low Pressure System
1A4003

Standard Features:

- **Membrane:** Three 2.5" x 40" TFC HF1 Membranes – For maximum rejection of impurities and high flow.
- **Membrane Housing:** Four 2.5" x 40" Champ™ Membrane Housings – Features a patented design and requires no tools when servicing.
- **Resin Cartridge:** One 2.5" x 40" DI Cartridge – Raises water quality levels.
- **Pump:** One 1001 Fluid-O-Tech® 5.3 GPM Brass Rotary Vane Pump – Directly couples to the motor and is designed for continuous high pressures.
- **Motor:** One 1 HP Leeson® Motor 110 or 220 Volt 50 or 60 Hertz.
- **Frame:** One Aluminum Black Powder Coated – Corrosion resistant and light weight.
- **Sediment Filter:** One 4.5" x 10" Big White 5 Micron Sediment Filter – Removes sediments and protects the system.
- **Carbon Block:** One 4.5" x 10" KDF® Carbon Cartridge – Removes Chlorine, odor, and prevents scaling from incoming feed water.
- **Filter Housing:** Two 4.5" x 10" Big Grey Double O-Ring Filter Housings – Offers durability and improved sealing capabilities.
- **Pressure Gauge:** One 2.5" 0-300 PSI Panel Mount Glycerin Filled Gauge and Two 1.5" 0-160 Top Mount Dry Gauges – For monitoring the system's operating pressure and the filter & carbon operating pressure.
- **Low Pressure Switch:** One McCanns® Low Pressure Switch – Safety device to protect the pump from running dry when there is insufficient feed water pressure.
- **Solenoid Valve:** One Solenoid Valve with Manual Override 110 or 220 Volt 50 or 60 Hertz – Assists with the on/off functionality of the system.
- **Manual Flush Valve:** One 1/4" Brass Needle Valve – Regulates the product to waste ratio (system's recovery).
- **Switch:** One Manual On and Off Switch.
- **TDS Meter:** One Panel Mount TDS Meter – Provides you with accurate readings of the product water quality.
- **Easy Maintenance & Operation:** Titan™ reverse osmosis systems feature a compact design and have all of their components strategically located for easy access and inspection.

Optional Features:

- **Stainless Steel Housings:** Four 2.5" x 40" PuroTech™ Stainless Steel Membrane Housings 3/8" FNPT.

System Specifications			
Model	Spot-Free Low Pressure System	Design	Mobile
Gallons Per Day	2500 @ 77°F	Dimensions (Approx.)	26" x 52" x 51"
Weight (Approx.)	80 lbs.	Concentrate Re-Circulate	N/A
Auto Flush	N/A	Element Size (in.)	2540 TFC HF1
Elements (Qty.)	3	Motor HP	1
Voltage	110 or 220	Hertz	50 or 60
Feed Connection	3/4"	Product Connection	3/8"
Waste Connection	3/8"		

System Operating Specifications	
Minimum Feed Pressure	35 psi
Minimum NaCl % Rejection	96%
Minimum Feed (GPM)	2
Maximum Hardness	15 Grains / Gallon
Maximum TDS	2000 ppm
Operating Pressure	150 psi
Nominal NaCl % Rejection	98.5%
Maximum Feed (GPM)	5
pH Range	3 - 11
Maximum Temperature	105 °F

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FILTRATION & CONDITIONING SYSTEMS

Water Filtration & Conditioning Systems

R.O. UltraTec offers a variety of water filtration & conditioning systems proven effective to treat everything from hard water to water with high levels of iron.

Treat and Reduce:

- Hardness
- Iron
- Sulfur
- Chlorine
- Manganese
- Odors
- Tastes
- Turbidity

Applications:

- Food Processing & Preparations
- Restaurants
- Car Washes
- Office Buildings
- Medical Centers
- Dairy Farms
- Laundries
- Apartment Complexes
- Schools
- Manufacturing Facilities

Part Number:	Description:
UNDER COUNTER	
1B1001	FST 2 Stage Filtration System 10” Slim Line 1/4” FNPT
1B1002	FST 2 Stage Filtration System 10” Slim Line 3/8” FNPT
1B1003	FST 2 Stage Filtration System 10” Slim Line 1/2” FNPT
1B1004	FST 3 Stage Filtration System 10” Slim Line 1/4” FNPT
1B1005	FST 3 Stage Filtration System 10” Slim Line 3/8” FNPT
1B1006	FST 3 Stage Filtration System 10” Slim Line 1/2” FNPT
1B1007	FST 3 Stage Filtration System 20” Slim Line 1/4” FNPT
1B1008	FST 3 Stage Filtration System 20” Slim Line 1/2” FNPT
1B1009	FST 3 Stage Filtration System 20” Slim Line 3/4” FNPT
WHOLE HOUSE	
1B2001	FSD 2 Stage Filtration System 10” Big Grey 3/4” FNPT
1B2002	FSD 2 Stage Filtration System 10” Big Grey 1” FNPT
1B2003	FSD 2 Stage Filtration System 20” Big Grey 3/4” FNPT
1B2004	FSD 2 Stage Filtration System 20” Big Grey 1” FNPT
1B2005	FSD 3 Stage Filtration System 10” Big Grey 3/4” NPT”
1B2006	FSD 3 Stage Filtration System 10” Big Grey 1” FNPT
1B2007	FSD 3 Stage Filtration System 20” Big Grey 3/4” FNPT
1B2008	FSD 3 Stage Filtration System 20” Big Grey 1” FNPT
1B2009	ASD 3 Stage Filtration System 10” Big Grey 3/4” FNPT w/ ASD Bar
1B2010	ASD 3 Stage Filtration System 10” Big Grey 1” FNPT w/ ASD Bar
1B2011	ASD 3 Stage Filtration System 20” Big Grey 3/4” FNPT w/ ASD Bar
1B2012	ASD 3 Stage Filtration System 20” Big Grey 1” FNPT w/ ASD Bar
1B2013	ASD 4 Stage Filtration System 10” Big Grey 3/4” FNPT w/ ASD Bar
1B2014	ASD 4 Stage Filtration System 10” Big Grey 1” FNPT w/ ASD Bar
1B2015	ASD 4 Stage Filtration System 20” Big Grey 3/4” FNPT w/ ASD Bar
1B2016	ASD 4 Stage Filtration System 20” Big Grey 1” FNPT w/ ASD Bar
1B2017	3/4” MNPT (Anti-Scaling Device) ASD Bar
1B2018	1” MNPT (Anti-Scaling Device) ASD Bar

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FILTRATION & CONDITIONING SYSTEMS – WHOLE HOUSE

FSD Filtration Systems

FSD Filtration Systems are featured in 2 and 3 stage designs with 3/4" or 1" port sizes. FSD systems are compact, require very little maintenance, are easy to install, and come with a wall-mounting bracket and hardware. These systems have been designed for sediment and Chlorine removal and are ideal for residential and commercial applications.

Features:

- High Quality Components
- Customizable
- Private Labeling Available
- Pre-Assembled
- 1-Year Manufacturer's Warranty
- Made in the U.S.A.

Standard Equipment:

- Pressure Gauges
- Double O-Ring Filter Housings
- Filter Housing Wrench
- All Hardware Included

FSD 2 Stage Systems:

Stage 1: 10" or 20" Big White 5 Micron Sediment Filter
Stage 2: 10" or 20" Big White Carbon Block Cartridge

Actual Dimensions		
FSD 2 Stage 10" System:	8" x 15" x 18"	35 lbs.
FSD 2 Stage 20" System:	8" x 15" x 28"	45 lbs.

FSD 3 Stage Systems:

Stage 1: 10" or 20" Big White 5 Micron Sediment Filter
Stage 2: 10" or 20" Big White Carbon Block Cartridge
Stage 3: 10" or 20" Big White 1 Micron Sediment Filter

Actual Dimensions		
FSD 3 Stage 10" System:	8" x 23" x 18"	45 lbs.
FSD 3 Stage 20" System:	8" x 23" x 28"	55 lbs.

ASD Filtration Systems

ASD Filtration Systems are ideal for residential, commercial, and specialty applications. These systems are featured in a 3 and 4 stage design with 3/4" or 1" port sizes. ASD systems are compact, require very little maintenance, are easy to install, and come with a wall-mounting bracket and hardware. The anti-scaling device (ASD) is a proprietary designed conditioning bar which is placed inline after the ASD system. The ASD bar removes and prevents scale buildup in plumbing, appliances, and even reverse osmosis systems.

Features:

- High Quality Components
- Private Labeling Available
- Pre-Assembled
- 1-Year Manufacturer's Warranty
- WQA Tested
- Made in the U.S.A.

Benefits:

- Reduces Calcium Deposits
- Improves Taste, Smell, and Quality of Water
- Removes Existing Scale
- Reduces the Need for Household Chemicals
- Requires No Chemical or Salt Regeneration
- Environmentally Friendly

Standard Equipment:

- Pressure Gauges
- Double O-Ring Filter Housings
- Filter Housing Wrench
- All Hardware Included

ASD 3 Stage Systems:

Stage 1: 10" or 20" Big White 5 Micron Sediment Filter
Removes sediments and debris.
Stage 2: 10" or 20" KDF® Carbon Cartridge
KDF® patented media provides the carbon with 10X longer life. Removes and reduces Chlorine, odors, tastes, and heavy metals from your water supply.
Stage 3: 3/4" or 1" Anti-Scaling Device (ASD)
Installed in a clear PVC housing for ease of inspection and cleaning (de-scaling).

Actual Dimensions		
ASD 3 Stage 10" System:	8" x 15" x 18"	40 lbs.
ASD 3 Stage 20" System:	8" x 15" x 28"	50 lbs.

FSD 4 Stage Systems:

Stage 1: 10" or 20" Big White 5 Micron Sediment Filter
Removes sediments and debris.
Stage 2: 10" or 20" KDF Carbon Cartridge
KDF® patented media provides the carbon with 10X longer life. Removes and reduces Chlorine, odors, tastes, and heavy metals from your water supply.
Stage 3: 10" or 20" Big White 1 Micron Sediment Filter
Removes sediments, debris, and carbon particles.
Stage 4: 3/4" or 1" Anti-Scaling Device (ASD)
Installed in a clear PVC housing for ease of inspection and cleaning (de-scaling).

Actual Dimensions		
FSD 3 Stage 10" System:	8" x 23" x 18"	50 lbs.
FSD 3 Stage 20" System:	8" x 23" x 28"	60 lbs.

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FILTRATION & SPECIALTY SYSTEMS

Excalibur™ Filtration Systems

Excalibur™ Filtration Systems use advanced filtration technology in order to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications.

Excalibur™ Filtration Systems offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. Excalibur™ Filtration Systems can be used in a variety of conditions including, but not limited to residential, commercial, industrial, and speciality applications.

Excalibur™ Filtration Systems are effective in removing sediment, turbidity, iron, unpleasant tastes and odors, suspended particles, and unwanted color, all of which are commonly found in surface water. All of the Excalibur™ Filtration Systems require periodic backwashing to dispose of the accumulated debris. This is accomplished by backwashing the system with clean water and then disposing the effluent.During this process, the different sizes of media separate into layers, preparing the filtration bed for service.

Effective in Treating the Following Water Conditions:

- » Hardness
- » Iron
- » Sulfur
- » Chlorine
- » Manganese
- » Odors
- » Tastes
- » Turbidity
- » Acidic Water

Standard Features:

- » Heavy-Duty Fiberglass Tank
- » Top Performing Components
- » Noryl Glass Filled Timered Control Valve
- » 110 Volt 60 Hertz
- » Flow Controller to Limit Backwash Flow
- » High Quality Medias

Options:

- » Twin Tank Systems
- » Stainless Steel Tank Jacket
- » In/Out Plastic Distributor Head
- » 220 Volt 50 Hertz
- » Inlet/Outlet Sample Valves
- » Inlet/Oulet Pressure Gauges

Model Number	Multi-Media 1B3001	Multi-Media 1B3003	Multi-Media 1B3005	Carbon 1B3007	Carbon 1B3009	Carbon 1B3011	Greensand 1B3013	Greensand 1B3015	Greensand 1B3017	Carbon KDF 1B3019	Carbon KDF 1B3021	Carbon KDF 1B3023
Minimum Flow Rate: GPM	4.4	5.4	7.8	3.5	4.4	6.2	3.5	4.4	6.2	3.5	4.4	6.2
Minimum Flow Rate: M^3/hr	1.0	1.2	1.8	0.8	1.0	1.4	0.8	1.0	1.4	0.8	1.0	1.4
Continuous Flow Rate: GPM	6.6	8.1	11.7	4.4	5.4	7.8	4.4	5.4	7.8	4.4	5.4	7.8
Continuous Flow Rate: M^3/hr	1.5	1.8	2.7	1.0	1.2	1.8	1.0	1.2	1.8	1.0	1.2	1.8
Peak Flow Rate: GPM	8.8	10.8	15.6	7.0	8.8	12.4	7.0	8.8	12.4	7.0	8.8	12.4
Peak Flow Rate: M^3/hr	2.0	2.5	3.5	1.6	2.0	2.8	1.6	2.0	2.8	1.6	2.0	2.8
Backwash Flow Rate: GPM	6.6	8.1	11.7	5.0	6.3	8.9	7.0	8.8	12.4	5.0	6.3	8.9
Backwash Flow Rate: M^3/hr	1.5	1.8	2.7	1.1	1.4	2.0	1.6	2.0	2.8	1.1	1.4	2.0
Fiberglass Tank: (D" x H")	9" x 48"	10" x 54"	12" x 52"	9" x 48"	10" x 54"	12" x 52"	9" x 48"	10" x 54"	12" x 52"	9" x 48"	10" x 54"	12" x 52"
Media Ft^3:	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0
Pipe Size:	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
Operating Pressure:	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar
Operating Temperature:	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C
Electrical: Volts	110	110	110	110	110	110	110	110	110	110	110	110
Electrical: Hertz	60	60	60	60	60	60	60	60	60	60	60	60
Shipping Weight: (lbs.)	118	156	204	62	81	106	75	98	130	69	88	113

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Excalibur™ Water Softeners

Single Tank:
Standard Features:

- Heavy-Duty Fiberglass Tank
- Top Performing Components
- Noryl Glass Filled Timered Control Valve
- 110 Volt 60 Hertz
- Self Adjusting Backwash Controller
- Timed Brine Refill Control
- High Exchange Capacity Resin
- Rigid Polyethylene Brine Tank with Safety Brine Valve, Dust Cover, & Tubing

Options:

- Twin Tank Systems
- Stainless Steel Tank Jacket
- 220 Volt 50 Hertz
- Pre-Treat Lockout Contacts
- 3/4" or 1" Stainless Steel Bypass
- Salt Grid Plate
- Metered Control Valve

Twin Tank:
Standard Features:

- Heavy-Duty Fiberglass Tank
- Top Performing Components
- Noryl Glass Filled Timered Control Valve
- 110 Volt 60 Hertz
- Self Adjusting Backwash Controller
- Flow Controller to Limit Backwash Flow
- Timed Brine Refill Control
- High Exchange Capacity Resin
- Rigid Polyethylene Brine Tank with Safety Brine Valve, Dust Cover, & Tubing

Options:

- Single Tank Systems
- Stainless Steel Tank Jacket
- 220 Volt 50 Hertz
- Pre-Treat Lockout Contacts
- 3/4" or 1" Stainless Steel Bypass
- Salt Grid Plate

Model Number	9x48 Single 1B4001	9x48 Single 1B4003	9x48 Twin 1B4005	10x54 Single 1B4007	10x54 Single 1B4009	10x54 Twin 1B4011	12x52 Single 1B4013	12x52 Single 1B4015	12x52 Twin 1B4017
Exchange Capacity: (Grains) Maximum	30,000	30,000	30,000	45,000	45,000	45,000	60,000	60,000	60,000
Exchange Capacity: (Grains) Minimum	20,000	20,000	20,000	30,000	30,000	30,000	40,000	40,000	40,000
Continuous Flow Rate: GPM	9.5	9.5	14	9.5	9.5	15	10.0	10.0	16
Peak Flow Rate: GPM	18	18	19	18	18	19.5	18	18	21
Backwash Flow Rate: GPM	2.0	2.0	2.5	3.0	3.0	3.0	4.0	4.0	3.5
Fiberglass Tank: (D" x H")	9"x48"	9"x48"	9"x48"x2	10"x54"	10"x54"	10"x54"x2	12"x52"	12"x52"	12"x52"x2
Brine Tank: (D" x H")	18" x 33"	18" x 33"	18" x 33"	18" x 33"	18" x 33"	18" x 33"	18" x 33"	18" x 33"	18" x 33"
Resin Ft^3:	1.0	1.0	1.0 x 2	1.5	1.5	1.5 x 2	2.0	2.0	2.0 x 2
Salt Storage Capacity:	350 lbs.	350 lbs.	350 lbs.	350 lbs.	350 lbs.	350 lbs.	350 lbs.	350 lbs.	350 lbs.
Control Valve Type:	Timered	Metered	Metered	Timered	Metered	Metered	Timered	Metered	Metered
Pipe Size:	1"	1"	1"	1"	1"	1"	1"	1"	1"
Operating Pressure:	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar	30-125 psi 2-8.6 bar
Operating Temperature:	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C	35-100°F 2-38°C
Electrical: Volts	110	110	110	110	110	110	110	110	110
Electrical: Hertz	60	60	60	60	60	60	60	60	60
Shipping Weight: (lbs.)	105	105	180	145	145	240	190	190	320

Excalibur™ Water Softeners are designed to meet the most demanding water conditions. These systems are designed for maximum performance with a minimal amount of maintenance and comply with all industry standards and specifications. Excalibur™ Twin Water Softeners offer a greater commercial operating capacity and provide you with 24 hours of continuous softened water.

Excalibur™ Water Softeners offer a new dimension in water treatment equipment and have been engineered with both the installer and consumer in mind. Systems are available in many different models and may be customized to fit your application. Excalibur™ Water Softeners can be used in a variety of conditions including, but not limited to residential, commercial, industrial, and speciality applications.

Excalibur™ Water Softeners are effective in removing high levels of hardness, primarily Calcium and Magnesium. These systems come with a external brine tank and require periodic backwashing to dispose of the accumulated hardness ions. This is accomplished by backwashing the system with brine water and then disposing the effluent. During this process, the softener media regenerates itself and once again is fully operational.

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COMPONENTS

Filtration Systems & Water Softener Components

Mineral Tanks:

- The tanks inner shell is constructed of high weight, blow molded non-toxic polyethylene.
- Wound with continuous fiberglass displaying superior strength under pressure.
- Ultraviolet protection.

Part Number:	1B5001	1B5002	1B5003
Fiberglass Tank: (D" x H")	9" x 48"	10" x 54"	12" x 52"
Resin Ft³:	1.0	1.5	2.0
US Gallons:	11.8	16.4	22.2
Standard Top Opening:	2.5"	2.5"	2.5"
Diameter:	9.2	10.2	12.0
Overall Height:	48.2	54.8	54.8
Maximum Operating Pressure:	150 psi	150 psi	150 psi
Maximum Operating Temperature:	100°F	100°F	100°F

Brine Tanks:

Brine tanks are made from one piece, rigid, high impact non-toxic polyethylene material. Brine tank covers are made from tough injection molded polystyrene material with high impact modifiers.

Stainless Steel Jackets:

Stainless Steel Jackets improve the look of your filtration and water softening system and act as a protective covering. These high quality polished stainless steel jackets are offered for all sizes of mineral tanks and are featured with plastic caps or with an enclosed top.

Float Valves:

- Easily adjusted to fit all brine tanks
- Fits both 3.5" and 4" brine wells
- Safety air check prevents air from being drawn into the system
- Increased refill and brine draw rates of up to 1 GPM
- All materials are FDA approved

Actual Dimensions
(D" x H"): 18" x 33"
Capacity: 35 Gallons
Salt Storage Capacity: 350 lbs.

Control Valves:

- **Fleck 5600 Timered:** Highly accurate and reliable clock type control. Provides regeneration on a pre-programmed basis. Once the timing cycle is set, it delivers economical, fully-automated operation. This model of valve is easy to operate and little to no maintenance.
- **Fleck 5600 Metered Econominder®:** Saves up to 50% in salt and uses considerably less water by automatically regenerating only when regeneration is needed. Unnecessary regenerations are eliminated by a simple, mechanical meter that monitors the water usage.
- **Fleck 9000 Metered Econominder®:** These valves are designed to work with twin water softeners and offer demand regeneration with flow rates up to 21 gpm. The 5-cycle control delivers controlled up flow backwash, down flow brining, slow rinse, rapid rinse, timed brine refill, and down flow service, all performed with the conditioned water. All cycles are easily adjustable and the valve can be programmed with "all cycle" variable time control.

All control valves are featured with dust covers and power supplies. Additional options are available.

Medias and Resins

Media & Resins: We offer a variety of medias and resins such as gravel, silver sand, anthracite, green sand, activated carbon, KDF®, ChemSorb®, and Thermax T-42.

- **Anthracite:** Performs nearly identical to a sand bed, but is used in applications where silica pick-up from the sand is objectionable.
- **Silver Sand:** The most common filter media, used in most filtration systems. Generally, fine mesh sand is coupled with a course grain support bed to remove suspended solids and turbidity.
- **Gravel:** Has a highly spherical shape that promotes good flow and even distribution in support beds.
- **Activated Carbon:** This media is recommended for the removal of unpleasant tastes, odors, dechlorination, and organic contaminant absorption.
- **Manganese Green Sand:** This media is capable of reducing iron, manganese, and hydrogen sulfide from water through oxidation and filtration.
- **KDF®:** This patented media has the ability to remove and/or reduce chlorine, iron oxide, sediment, hydrogen sulfide, heavy metals, microorganisms through a process called oxidation reduction (Redox).
- **ChemSorb®:** Used as a filter bed (or tank) material in lieu of sand/anthracite, pecan shells or other, coarse filtration material to efficiently remove suspended solids and fine turbidity particles. The filter granules physically filter and trap the suspended solids. In addition, the granules remove a wide range of colloidal and soluble, inorganic metallic, contaminants by surface sorption, chemical-binding, charge-neutralization, coagulation, reactions and/or ionic, ion-exchange phenomena.
- **Thermax T-42:** This resin is a high purity and capacity premium grade bad form conventional gel polystyrene copolymer cation exchange resin. Used for water softening in food processing, beverage, and potable water applications. T-42 also has excellent physical and chemical properties with resistance to oxidation.

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FILTRATION, SPECIALTY SYSTEMS / WATER SOFTENERS / COMPONENTS / WATER COOLERS

Part Number:	Description:
FILTRATION & SPECIALTY SYSTEMS	
1B3001	Excalibur Multimedia Filtration 9" x 48" Tank Fleck 5600 Timered Head 110 Volt
1B3002	Excalibur Multimedia Filtration 9" x 48" Tank Fleck 5600 Timered Head 220 Volt
1B3004	Excalibur Multimedia Filtration 10" x 54" Tank Fleck 5600 Timered Head 220 Volt
1B3006	Excalibur Multimedia Filtration 12" x 52" Tank Fleck 5600 Timered Head 220 Volt
1B3008	Excalibur Activated Carbon Filtration 9" x 48" Tank Fleck 5600 Timered Head 220 Volt
1B3010	Excalibur Activated Carbon Filtration 10" x 54" Tank Fleck 5600 Timered Head 220 Volt
1B3012	Excalibur Activated Carbon Filtration 12" x 52" Tank Fleck 5600 Timered Head 220 Volt
1B3014	Excalibur Greensand Filtration 9" x 48" Tank Fleck 5600 Timered Head 220 Volt
1B3016	Excalibur Greensand Filtration 10" x 54" Tank Fleck 5600 Timered Head 220 Volt
1B3018	Excalibur Greensand Filtration 12" x 52" Tank Fleck 5600 Timered Head 220 Volt
1B3020	Excalibur KDF/GAC 9" x 48" Tank Fleck 5600 Timered Head 220 Volt
WATER SOFTENERS	
1B3022	Excalibur KDF/GAC 10" x 54" Tank Fleck 5600 Timered Head 220 Volt
1B3023	Excalibur KDF/GAC 12" x 52" Tank Fleck 5600 Timered Head 110 Volt
1B3024	Excalibur KDF/GAC 12" x 52" Tank Fleck 5600 Timered Head 220 Volt
1B3025	Excalibur Inline Carbon 9" x 48" Tank 3/4" FNPT
1B3026	Excalibur Inline Carbon 9" x 48" Tank 1" FNPT
1B3027	Excalibur Inline Carbon 10" x 54" Tank 3/4" FNPT
1B3028	Excalibur Inline Carbon 10" x 54" Tank 1" FNPT
1B3029	Excalibur Inline Carbon 12" x 52" Tank 3/4" FNPT
1B3030	Excalibur Inline Carbon 12" x 52" Tank 1" FNPT
WATER SOFTENERS	
1B4001	Water Softener 9" x 48" Tank w/ Fleck 5600 Timered Head 110 Volt 18" x 33" Brine Tank
1B4002	Water Softener 9" x 48" Tank w/ Fleck 5600 Timered Head 220 Volt 18" x 33" Brine Tank
1B4003	Water Softener 9" x 48" Tank w/ Fleck 5600 Metered Head 110 Volt 18" x 33" Brine Tank
1B4004	Water Softener 9" x 48" Tank w/ Fleck 5600 Metered Head 220 Volt 18" x 33" Brine Tank
1B4005	Water Softener Twin 9" x 48" Tank w/ Fleck 9000 Metered Head 110 Volt 18" x 33" Brine Tank
1B4006	Water Softener Twin 9" x 48" Tank w/ Fleck 9000 Metered Head 220 Volt 18" x 33" Brine Tank
1B4007	Water Softener 10" x 54" Tank w/ Fleck 5600 Timered Head 110 Volt 18" x 33" Brine Tank
1B4008	Water Softener 10" x 54" Tank w/ Fleck 5600 Timered Head 220 Volt 18" x 33" Brine Tank
1B4009	Water Softener 10" x 54" Tank w/ Fleck 5600 Metered Head 110 Volt 18" x 33" Brine Tank
1B4010	Water Softener 10" x 54" Tank w/ Fleck 5600 Metered Head 220 Volt 18" x 33" Brine Tank
1B4011	Water Softener Twin 10" x 54" Tank w/ Fleck 9000 Metered Head 110 Volt 18" x 33" Brine Tank
1B4012	Water Softener Twin 10" x 54" Tank w/ Fleck 9000 Metered Head 220 Volt 18" x 33" Brine Tank
1B4013	Water Softener 12" x 52" Tank w/ Fleck 5600 Timered Head 110 Volt 18" x 33" Brine Tank
1B4014	Water Softener 12" x 52" Tank w/ Fleck 5600 Timered Head 220 Volt 18" x 33" Brine Tank
1B4015	Water Softener 12" x 52" Tank w/ Fleck 5600 Metered Head 110 Volt 18" x 33" Brine Tank
1B4016	Water Softener 12" x 52" Tank w/ Fleck 5600 Metered Head 220 Volt 18" x 33" Brine Tank
1B4017	Water Softener Twin 12" x 52" Tank w/ Fleck 9000 Metered Head 110 Volt 18" x 33" Brine Tank
1B4018	Water Softener Twin 12" x 52" Tank w/ Fleck 9000 Metered Head 220 Volt 18" x 33" Brine Tank

Part Number:	Description:
COMPONENTS	
1B5001	9" x 48" Mineral Tank
1B5002	10" x 54" Mineral Tank
1B5003	12" x 52" Mineral Tank
1B5004	9" x 48" Stainless Steel Jacket w/ Plastic Top
1B5005	10" x 54" Stainless Steel Jacket w/ Plastic Top
1B5006	12" x 52" Stainless Steel Jacket w/ Plastic Top
1B5007	9" x 48" Stainless Steel Jacket w/ Enclosed Top
1B5008	10" x 54" Stainless Steel Jacket w/ Enclosed Top
1B5009	12" x 52" Stainless Steel Jacket w/ Enclosed Top
1B5010	Fleck 5600 Filter Timered Head 110 Volt
1B5011	Fleck 5600 Filter Timered Head 220 Volt
1B5012	Fleck 5600 Softener Timered Head 110 Volt
1B5013	Fleck 5600 Softener Timered Head 110 Volt
1B5014	Fleck 5600 Softener Metered Head 110 Volt
1B5015	Fleck 5600 Softener Metered Head 220 Volt
1B5016	Fleck 9000 Metered Twin Head 110 Volt
1B5017	Fleck 9000 Metered Twin Head 220 Volt
1B5018	3/4" FNPT Plastic Distributor Head
1B5019	1" FNPT Plastic Distributor Head
1B5020	18" x 33" Black Brine Tank
1B5021	Pot-Perm Solution Tank
1B5022	Brine Tank Float
1B5023	Pre-Treat Lockout Contacts
1B5024	Riser Pipe
1B5025	Upper Screen
1B5026	Lower Screen

MEDIAS & RESINS	
1B6001	50 lb. Bag Fine Gravel
1B6002	50 lb. Bag Silver Sand
1B6003	1 Cubic Foot ChemSorb
1B6004	1 Cubic Foot Anthracite
1B6005	1 Cubic Foot Greensand
1B6006	1 Cubic Foot Carbon
1B6007	1 Cubic Foot T-42 Resin
1B6008	KDF 85 Cartridge
1B6009	KDF 55 Cartridge
1B6010	53 lb. Pail KDF 55 C

Part Number:	Description:
WATER COOLERS / DUAL TEMPERATURE	
1C1001	Dual Temperature Countertop Cooler
1C1002	Dual Temperature Standing Cooler
1C1003	Dual Temperature Standing Cooler w/ 35 GPD TFC Reverse Osmosis System
WATER COOLERS / TRI-TEMPERATURE	
1C2001	Tri-Temperature Standing Cooler
1C2002	Tri-Temperature Standing Cooler w/ 35 GPD TFC Reverse Osmosis System
1C2003	Tri-Temperature Standing Cooler w/ 35 GPD TFC RO & Permeate Pump
1C2004	Tri-Temperature Standing Cooler w/ 35 GPD TFC RO & 6800 Booster Pump
1C2005	Tri-Temperature Standing Cooler w/ 35 GPD TFC RO & 8800 Booster Pump

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RESIDENTIAL

Residential CTA Reverse Osmosis Membranes

R.O. UltraTec's residential **CTA reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers, water treatment dealers, and residential customers can rely on.

Features:

- » Offered In a Variety of Types & Sizes
- » 100% Wet Tested & Sanitized
- » Private Labeling Available
- » Tape Wrap Seal Available
- » Water Resistant Labels

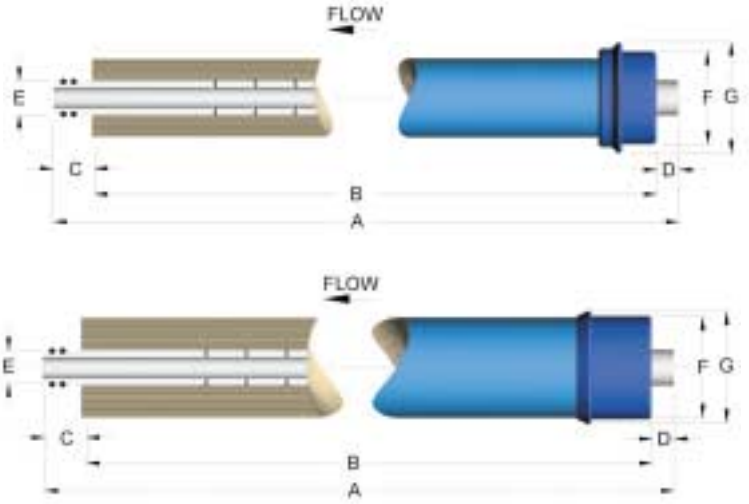
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D1001	10 GPD CTA	60 (4.14)	10	96
1D1002	16 GPD CTA	60 (4.14)	16	96
1D1003	20 GPD CTA	60 (4.14)	20	96

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data taken after 30 minutes of operation. Maximum pressure drop for each element is 10 psi. Minimum salt rejection is 93%.

Operating Limits:

» Membrane Type:	Cellulose Tri-Acetate
» Maximum Operating Temperature:	110°F (43°C)
» Maximum Operating Pressure:	125 PSI
» Maximum Feed Flow Rate:	1 GPM
» Minimum Concentrate Flow Rate:	4 x Permeate
» pH Range, Continuous Operation:	3 - 9
» pH Range, Short Term Cleaning (30 Min.):	1 - 12
» Maximum Feed Water Turbidity:	1 NTU
» Maximum Feed Silt Density Index (SDI):	5 SDI



Dimensions (inches):

Description	A	B	C	D	E	F	G
10 GPD CTA	11.79	10.51	0.78	0.5	0.67	1.8	2.12
16 GPD CTA	11.79	10.51	0.78	0.5	0.67	1.92	2.12
20 GPD CTA	11.79	10.51	0.78	0.5	0.67	1.92	2.12

Permeate flow for individual elements may vary +/- 15%. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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RESIDENTIAL

Residential TFC Reverse Osmosis Membranes

R.O. UltraTec's residential **TFC reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers, water treatment dealers, and residential customers can rely on.

Features:

- Offered In a Variety of Types & Sizes
- 150 GPD Element Now Available!
- 97%–99% Rejection
- Available Dry
- 100% Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available
- Tape Wrap Seal Available

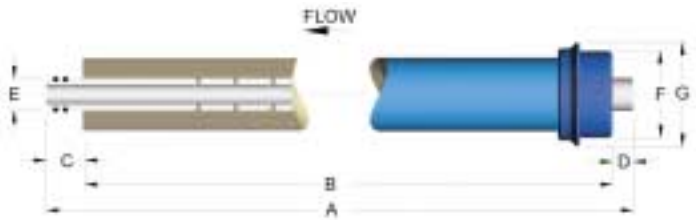
Product Specifications:

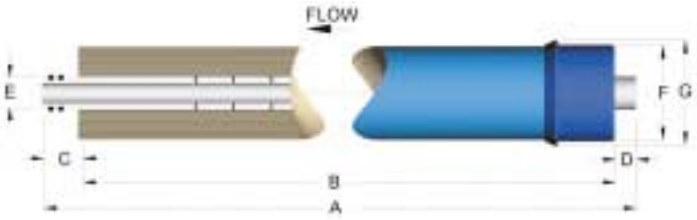
Part Number:	Description	Applied Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D1004	12 GPD TFC	60 (4.14)	12	98
1D1005	18 GPD TFC	60 (4.14)	18	98
1D1006	25 GPD TFC	60 (4.14)	25	98
1D1007	35 GPD TFC	60 (4.14)	35	98
1D1008	50 GPD TFC	60 (4.14)	50	98
1D1009	70 GPD TFC	60 (4.14)	70	98
1D1010	100 GPD TFC	60 (4.14)	100	98
1D1011	150 GPD TFC	65	150	98

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data taken after 30 minutes of operation. Maximum pressure drop for each element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

- Membrane Type: Thin Film Composite
- Maximum Operating Temperature: 110°F (43°C)
- Maximum Operating Pressure: 125 PSI
- Maximum Feed Flow Rate: 1 GPM
- Minimum Concentrate Flow Rate: 4 x Permeate
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: <1 PPM





Dimensions (inches):

Description	A	B	C	D	E	F	G
12 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.8	2.12
18 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.8	2.12
25 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.8	2.12
35 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.92	2.12
50 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.92	2.12
70 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.92	2.12
100 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.92	2.12
150 GPD TFC	11.79	10.51	0.78	0.5	0.67	1.92	2.12

Permeate flow for individual elements may vary +/- 15%. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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RESIDENTIAL

Residential Encapsulated Reverse Osmosis Membranes

R.O. UltraTec's residential **Encapsulated reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers, water treatment dealers, and residential customers can rely on.

Features:

- Offered in 35, 50, 70, 100, & 150 GPD Element Sizes
- Available With Built-In Check Valve and Flow Restrictor
- 1/4" Color Coded Quick Connect Fittings
- Swivel Fitting on Feed Port
- Private Labeling Available

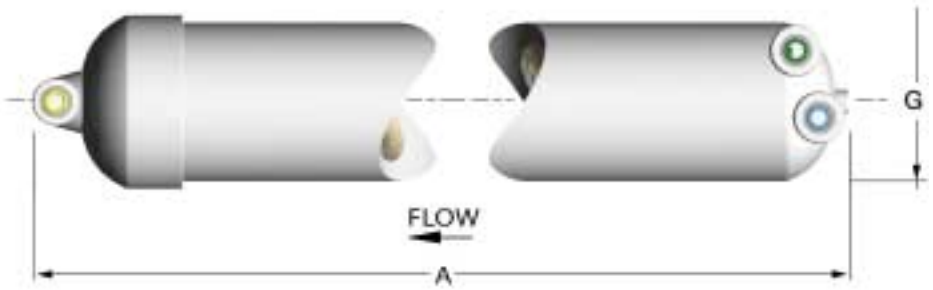
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D1012	35 GPD TFC	60 (4.14)	35	98
1D1013	50 GPD TFC	60 (4.14)	50	98
1D1014	70 GPD TFC	60 (4.14)	70	98
1D1015	100 GPD TFC	60 (4.14)	100	98
1D1016	150 GPD TFC	65	150	98

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data taken after 30 minutes of operation. Maximum pressure drop for each element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

- Membrane Type: Thin Film Composite
- Maximum Operating Temperature: 110°F (43°C)
- Maximum Operating Pressure: 90 PSI
- Maximum Feed Flow Rate: 1 GPM
- Minimum Concentrate Flow Rate: 4 x Permeate
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: <1 PPM
- Capsulation Material: Polypropylene



Dimensions (inches):

Description	A	G	Description	A	G
35 GPD TFC	13.40	2.60	**100 GPD TFC**	13.40	2.60
50 GPD TFC	13.40	2.60	**150 GPD TFC**	13.40	2.60
70 GPD TFC	13.40	2.60			

Permeate flow for individual elements may vary +/- 15%. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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COMMERCIAL

HR1 Membrane Elements

R.O. UltraTec's **HR1 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. HR1 Membrane Elements deliver consistent high performance results day in and day out. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with High Rejection (HR) Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

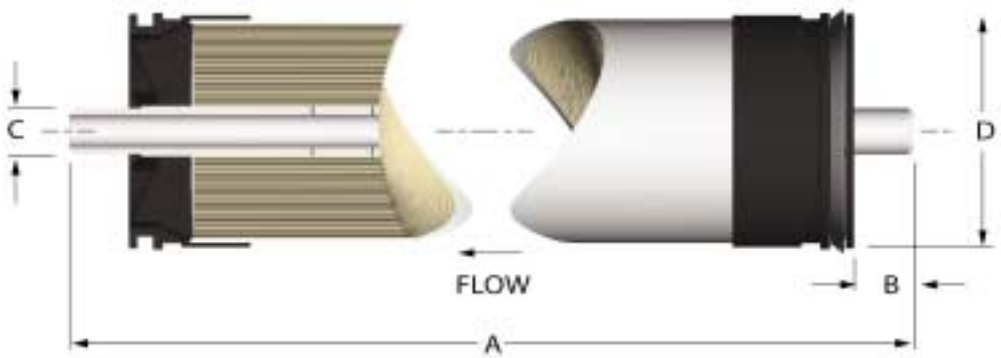
Operating Limits:

Membrane Type:	Thin Film Composite
Maximum Operating Temperature:	110°F (43°C)
Minimum Concentrate Flow Rate:	5:1
pH Range, Continuous Operation:	3 - 11
pH Range, Short Term Cleaning (30 Min.):	1 - 12
Maximum Feed Water Turbidity:	1 NTU
Maximum Feed Silt Density Index (SDI):	5 SDI
Chlorine Tolerance:	0 PPM

Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2001	2514 TFC HR1	225 (15.51)	400 (27.58)	150	99.4
1D2010	2521 TFC HR1	225 (15.51)	400 (27.58)	250	99.4
1D2019	2540 TFC HR1	225 (15.51)	400 (27.58)	650	99.4
1D2028	4014 TFC HR1	225 (15.51)	400 (27.58)	400	99.4
1D2037	4021 TFC HR1	225 (15.51)	400 (27.58)	900	99.4
1D2046	4040 TFC HR1	225 (15.51)	400 (27.58)	1900	99.4

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.



Dimensions (inches):

Description	A	B	C	D
2514 TFC HR1	14	1.0	0.75	2.4
2521 TFC HR1	21	1.0	0.75	2.4
2540 TFC HR1	40	1.0	0.75	2.4
4014 TFC HR1	14	1.0	0.75	3.95
4021 TFC HR1	21	1.0	0.75	3.95
4040 TFC HR1	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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HR2 Membrane Elements

R.O. UltraTec's **HR2 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. HR2 Membrane Elements deliver consistent high performance results day in and day out. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with High Rejection (HR) Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

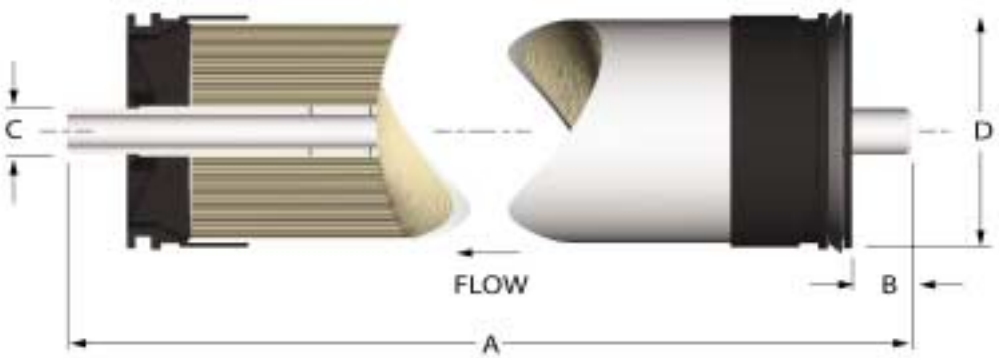
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2002	2514 TFC HR2	225 (15.51)	400 (27.58)	150	99
1D2011	2521 TFC HR2	225 (15.51)	400 (27.58)	250	99
1D2020	2540 TFC HR2	225 (15.51)	400 (27.58)	650	99
1D2029	4014 TFC HR2	225 (15.51)	400 (27.58)	400	99
1D2038	4021 TFC HR2	225 (15.51)	400 (27.58)	900	99
1D2047	4040 TFC HR2	225 (15.51)	400 (27.58)	2200	99

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

- Membrane Type: Polyamide
- Maximum Operating Temperature: 110°F (43°C)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: 0 PPM



Dimensions (inches):

Description	A	B	C	D
2514 TFC HR2	14	1.0	0.75	2.4
2521 TFC HR2	21	1.0	0.75	2.4
2540 TFC HR2	40	1.0	0.75	2.4
4014 TFC HR2	14	1.0	0.75	3.95
4021 TFC HR2	21	1.0	0.75	3.95
4040 TFC HR2	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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HF1 Membrane Elements

R.O. UltraTec's **HF1 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. HF1 Membrane Elements are high productivity, energy-saving polyamide membranes. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with High Flow (HF) Low Energy Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

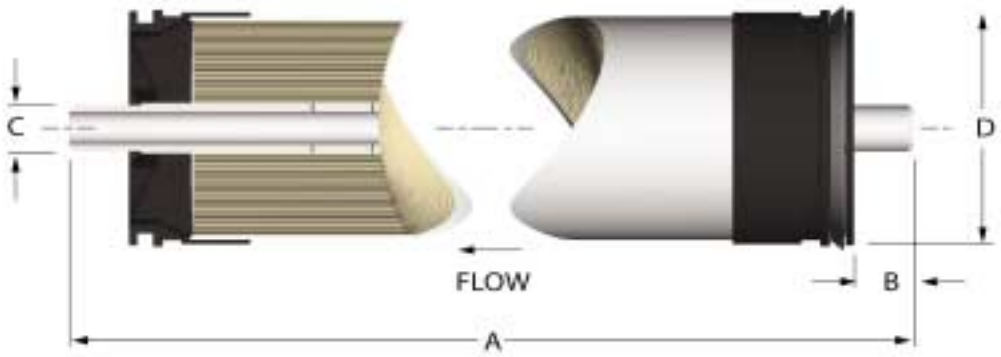
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2003	2514 TFC HF1	150 (10.34)	400 (27.58)	225	98.5
1D2012	2521 TFC HF1	150 (10.34)	400 (27.58)	400	98.5
1D2021	2540 TFC HF1	150 (10.34)	400 (27.58)	1000	98.5
1D2030	4014 TFC HF1	150 (10.34)	400 (27.58)	500	98.5
1D2039	4021 TFC HF1	150 (10.34)	400 (27.58)	1000	98.5
1D2048	4040 TFC HF1	150 (10.34)	400 (27.58)	2500	98.5

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

» Membrane Type:	Polyamide
» Maximum Operating Temperature:	110°F (43°C)
» Minimum Concentrate Flow Rate:	5:1
» pH Range, Continuous Operation:	3 - 11
» pH Range, Short Term Cleaning (30 Min.):	1 - 12
» Maximum Feed Water Turbidity:	1 NTU
» Maximum Feed Silt Density Index (SDI):	5 SDI
» Chlorine Tolerance:	0 PPM



Dimensions (inches):

Description	A	B	C	D
2514 TFC HF1	14	1.0	0.75	2.4
2521 TFC HF1	21	1.0	0.75	2.4
2540 TFC HF1	40	1.0	0.75	2.4
4014 TFC HF1	14	1.0	0.75	3.95
4021 TFC HF1	21	1.0	0.75	3.95
4040 TFC HF1	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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HF2 Membrane Elements

R.O. UltraTec's **HF2 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. HF2 Membrane Elements are high productivity, energy-saving polyamide membranes. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with High Flow (HF) Low Energy Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

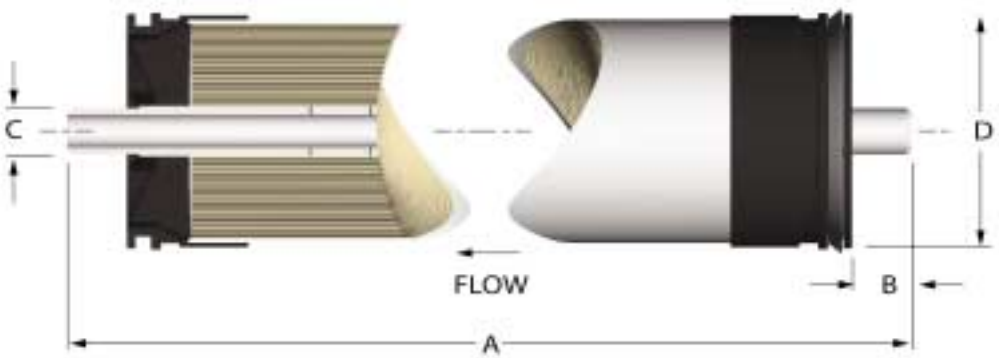
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2004	2514 TFC HF2	150 (10.34)	400 (27.58)	150	99.2
1D2013	2521 TFC HF2	150 (10.34)	400 (27.58)	250	99.2
1D2022	2540 TFC HF2	150 (10.34)	400 (27.58)	650	99.2
1D2031	4014 TFC HF2	150 (10.34)	400 (27.58)	400	99.2
1D2040	4021 TFC HF2	150 (10.34)	400 (27.58)	900	99.2
1D2049	4040 TFC HF2	150 (10.34)	400 (27.58)	1900	99.2

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

- Membrane Type: Polyamide
- Maximum Operating Temperature: 110°F (43°C)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: <1 PPM



Dimensions (inches):

Description	A	B	C	D
2514 TFC HF2	14	1.0	0.75	2.4
2521 TFC HF2	21	1.0	0.75	2.4
2540 TFC HF2	40	1.0	0.75	2.4
4014 TFC HF2	14	1.0	0.75	3.95
4021 TFC HF2	21	1.0	0.75	3.95
4040 TFC HF2	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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COMMERCIAL

HF3 Membrane Elements

R.O. UltraTec's **HF3 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. HF3 Membrane Elements are high productivity, energy-saving polyamide membranes. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with High Flow (HF) Low Energy Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

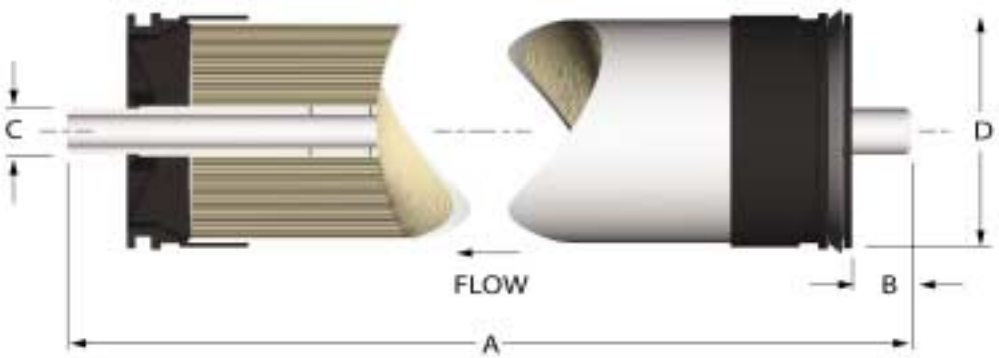
Operating Limits:

Membrane Type:	Polyamide
Maximum Operating Temperature:	110°F (43°C)
Minimum Concentrate Flow Rate:	5:1
pH Range, Continuous Operation:	3 - 11
pH Range, Short Term Cleaning (30 Min.):	1 - 12
Maximum Feed Water Turbidity:	1 NTU
Maximum Feed Silt Density Index (SDI):	5 SDI
Chlorine Tolerance:	<1 PPM

Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2005	2514 TFC HF3	150 (10.34)	400 (27.58)	250	98
1D2014	2521 TFC HF3	150 (10.34)	400 (27.58)	450	98
1D2023	2540 TFC HF3	150 (10.34)	400 (27.58)	1100	98
1D2032	4014 TFC HF3	150 (10.34)	400 (27.58)	500	98
1D2041	4021 TFC HF3	150 (10.34)	400 (27.58)	1100	98
1D2050	4040 TFC HF3	150 (10.34)	400 (27.58)	3000	98

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.



Dimensions (inches):

Description	A	B	C	D
2514 TFC HF3	14	1.0	0.75	2.4
2521 TFC HF3	21	1.0	0.75	2.4
2540 TFC HF3	40	1.0	0.75	2.4
4014 TFC HF3	14	1.0	0.75	3.95
4021 TFC HF3	21	1.0	0.75	3.95
4040 TFC HF3	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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COMMERCIAL

HF4 Membrane Elements

R.O. UltraTec's **HF4 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. HF4 Membrane Elements are high productivity, energy-saving polyamide membranes. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with High Flow (HF) Low Energy Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

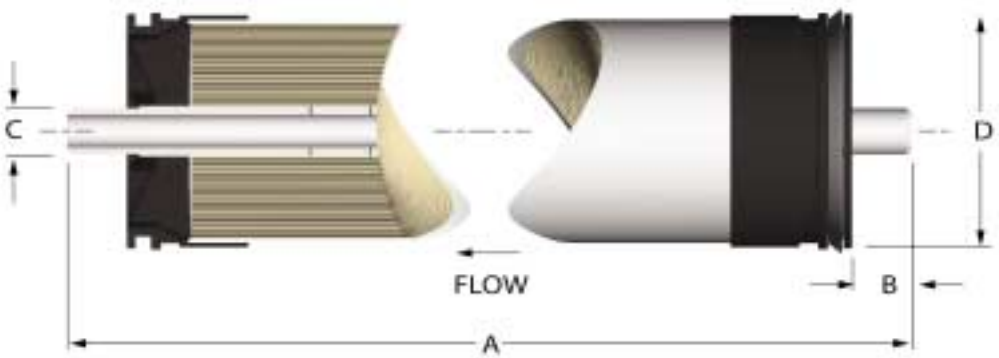
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2055	2514 TFC HF4	100 (6.89)	400 (27.58)	150	98.5
1D2056	2521 TFC HF4	100 (6.89)	400 (27.58)	350	98.5
1D2057	2540 TFC HF4	100 (6.89)	400 (27.58)	800	98.5
1D2058	4014 TFC HF4	100 (6.89)	400 (27.58)	400	98.5
1D2059	4021 TFC HF4	100 (6.89)	400 (27.58)	1025	98.5
1D2060	4040 TFC HF4	100 (6.89)	400 (27.58)	2600	98.5

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

- Membrane Type: Polyamide
- Maximum Operating Temperature: 110°F (43°C)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: <1 PPM



Dimensions (inches):

Description	A	B	C	D
2514 TFC HF4	14	1.0	0.75	2.4
2521 TFC HF4	21	1.0	0.75	2.4
2540 TFC HF4	40	1.0	0.75	2.4
4014 TFC HF4	14	1.0	0.75	3.95
4021 TFC HF4	21	1.0	0.75	3.95
4040 TFC HF4	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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CTA1 Membrane Elements

R.O. UltraTec's **CTA1 reverse osmosis membrane elements** are the industry's most reliable and highest performing elements. CTA1 Membrane Elements are one of the industry's leading chlorine tolerant membrane elements. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with Cellulose Tri-Acetate (CTA) Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

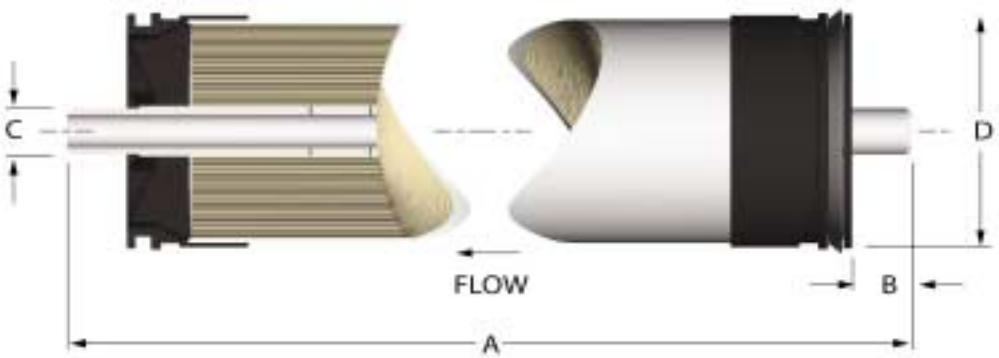
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)
1D2006	2514 CTA1	225 (15.51)	400 (27.58)	125	96
1D2015	2521 CTA1	225 (15.51)	400 (27.58)	225	96
1D2024	2540 CTA1	225 (15.51)	400 (27.58)	500	96
1D2033	4014 CTA1	225 (15.51)	400 (27.58)	250	96
1D2042	4021 CTA1	225 (15.51)	400 (27.58)	550	96
1D2051	4040 CTA1	225 (15.51)	400 (27.58)	1250	96

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi. Minimum salt rejection is 96%.

Operating Limits:

- Membrane Type: Cellulose Tri-Acetate
- Maximum Operating Temperature: 110°F (43°C)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 3 - 11
- pH Range, Short Term Cleaning (30 Min.): 1 - 12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density Index (SDI): 5 SDI
- Chlorine Tolerance: 1 mg/L



Dimensions (inches):

Description	A	B	C	D
2514 CTA1	14	1.0	0.75	2.4
2521 CTA1	21	1.0	0.75	2.4
2540 CTA1	40	1.0	0.75	2.4
4014 CTA1	14	1.0	0.75	3.95
4021 CTA1	21	1.0	0.75	3.95
4040 CTA1	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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COMMERCIAL

NANO1 Membrane Elements

R.O. UltraTec's **NANO1 nanofiltration membrane elements** are the industry's most reliable and highest performing elements. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- » Featured with Nanofiltration Membrane Material
- » High Quality and Superior Performance
- » ABS Hard Shell – No Tape Wrapping
- » Individually Tested & Sanitized
- » Water Resistant Labels
- » Private Labeling Available

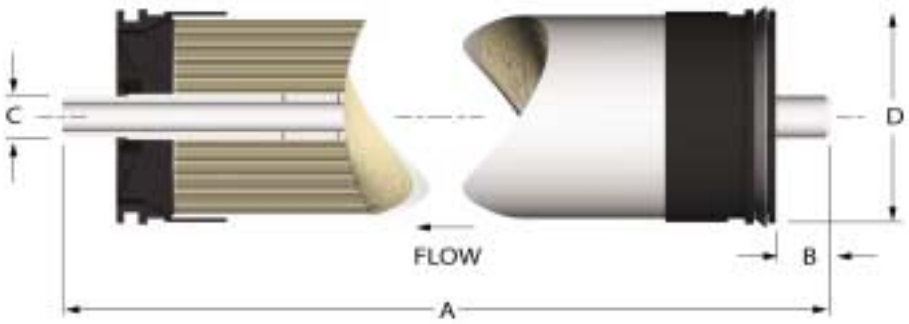
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)	$MgSO_4$ Rejection (%)
1D2007	2514 NANO1	110 (7.58)	400 (27.58)	250	80	97
1D2016	2521 NANO1	110 (7.58)	400 (27.58)	450	80	97
1D2025	2540 NANO1	110 (7.58)	400 (27.58)	1100	80	97
1D2034	4014 NANO1	110 (7.58)	400 (27.58)	500	80	97
1D2043	4021 NANO1	110 (7.58)	400 (27.58)	1100	80	97
1D2052	4040 NANO1	110 (7.58)	400 (27.58)	2500	80	97

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi.

Operating Limits:

- » Membrane Type: Thin Film Composite - Softening
- » Maximum Operating Temperature: 110°F (43°C)
- » Minimum Concentrate Flow Rate: 5:1
- » pH Range, Continuous Operation: 3 - 11
- » pH Range, Short Term Cleaning (30 Min.): 1 - 12
- » Maximum Feed Water Turbidity: 1 NTU
- » Maximum Feed Silt Density Index (SDI): 5 SDI
- » Chlorine Tolerance: <1 PPM



Dimensions (inches):

Description	A	B	C	D
2514 NANO1	14	1.0	0.75	2.4
2521 NANO1	21	1.0	0.75	2.4
2540 NANO1	40	1.0	0.75	2.4
4014 NANO1	14	1.0	0.75	3.95
4021 NANO1	21	1.0	0.75	3.95
4040 NANO1	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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NANO2 Membrane Elements

R.O. UltraTec's **NANO2 nanofiltration membrane elements** are the industry's most reliable and highest performing elements. Advanced membrane technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with Nanofiltration Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

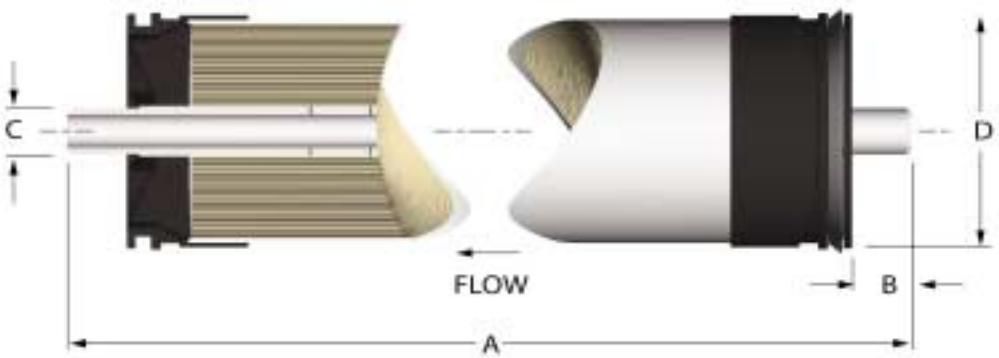
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	Permeate Flow Rate GPD	Nominal Salt Rejection (%)	$MgSO_4$ Rejection (%)
1D2008	2514 NANO2	55 (3.79)	350 (24.13)	200	10-30	97
1D2017	2521 NANO2	55 (3.79)	350 (24.13)	200	10-30	97
1D2026	2540 NANO2	55 (3.79)	350 (24.13)	800	10-30	97
1D2035	4014 NANO2	55 (3.79)	350 (24.13)	400	10-30	97
1D2044	4021 NANO2	55 (3.79)	350 (24.13)	400	10-30	97
1D2053	4040 NANO2	55 (3.79)	350 (24.13)	2400	10-30	97

Permeate flow and salt rejection based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi.

Operating Limits:

» Membrane Type:	Nanofiltration
» Maximum Operating Temperature:	110°F (43°C)
» Minimum Concentrate Flow Rate:	5:1
» pH Range, Continuous Operation:	3 - 11
» pH Range, Short Term Cleaning (30 Min.):	1 - 12
» Maximum Feed Water Turbidity:	1 NTU
» Maximum Feed Silt Density Index (SDI):	5 SDI
» Chlorine Tolerance:	<1 PPM



Dimensions (inches):

Description	A	B	C	D
2514 NANO2	14	1.0	0.75	2.4
2521 NANO2	21	1.0	0.75	2.4
2540 NANO2	40	1.0	0.75	2.4
4014 NANO2	14	1.0	0.75	3.95
4021 NANO2	21	1.0	0.75	3.95
4040 NANO2	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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COMMERCIAL

UF1 Membrane Elements

R.O. UltraTec's **UF1 ultrafiltration elements** are the industry's most reliable and highest performing elements. Advanced technology and manufacturing processes allow these elements to deliver consistent performance that equipment suppliers and water treatment dealers can rely on.

Features:

- Featured with Ultrafiltration Membrane Material
- High Quality and Superior Performance
- ABS Hard Shell – No Tape Wrapping
- Individually Tested & Sanitized
- Water Resistant Labels
- Private Labeling Available

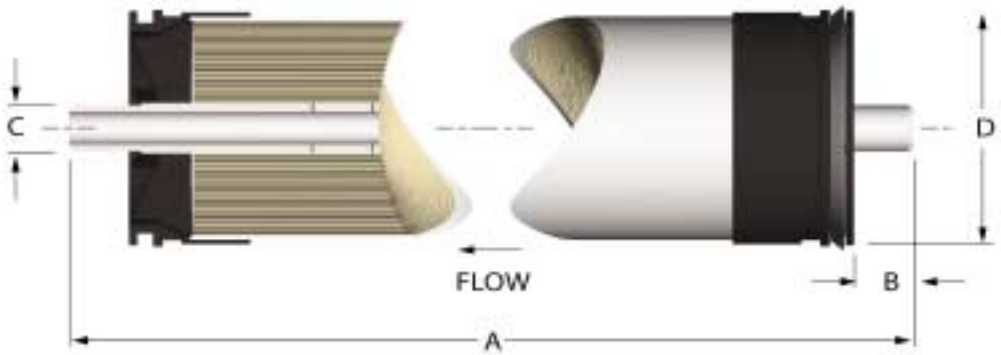
Product Specifications:

Part Number:	Description	Applied Pressure PSIG (BAR)	Maximum Pressure PSIG (BAR)	MWCO
1D2009	2514 UF1	60 (4.14)	100 (6.89)	20k
1D2018	2521 UF1	60 (4.14)	100 (6.89)	20k
1D2027	4014 UF1	60 (4.14)	100 (6.89)	20k
1D2036	4014 UF1	60 (4.14)	100 (6.89)	20k
1D2045	4021 UF1	60 (4.14)	100 (6.89)	20k
1D2054	4040 UF1	60 (4.14)	100 (6.89)	20k

Permeate flow based on the following test conditions: 550 ppm Treated Tap Water, 77°F (25°C), 15% Permeate Recovery, 6.5 – 7.0 pH Range, and the specified applied pressure. Data Taken after 30 Minutes of Operation. Maximum Pressure Drop for Each Element is 10 psi.

Operating Limits:

» Membrane Type:	P.E.S.
» Maximum Operating Temperature:	110°F (43°C)
» Minimum Concentrate Flow Rate:	5:1
» pH Range, Continuous Operation:	3 - 11
» pH Range, Short Term Cleaning (30 Min.):	1 - 12
» Maximum Feed Water Turbidity:	1 NTU
» Maximum Feed Silt Density Index (SDI):	5 SDI
» Chlorine Tolerance:	<1 PPM



Dimensions (inches):

Description	A	B	C	D
2514 UF1	14	1.0	0.75	2.4
2521 UF1	21	1.0	0.75	2.4
2540 UF1	40	1.0	0.75	2.4
4014 UF1	14	1.0	0.75	3.95
4021 UF1	21	1.0	0.75	3.95
4040 UF1	40	1.0	0.75	3.95

Permeate flow for individual elements may vary +/- 15%. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, R.O. UltraTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Wet tested membrane elements must be kept sealed and moist when in storage. Drying out may occur and damage the membrane permanently. Prevent elements from freezing or being exposed to direct sunlight. Elements are vacuum sealed in a polyethylene bag containing 1.0% sodium meta-bisulfite and then packaged in a cardboard box. Discard the permeate for the first two hours of operation. The permeate flow (product water flow) varies with feed water temperature. Review our Temperature Conversion Chart. For membrane warranty information, review our Warranty for Reverse Osmosis Membrane Elements.

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Membrane Element Brands

Part Number:	Description:
1D3001	Hydranautics ESPA® 1 2540
1D3002	Hydranautics ESPA® 1 4040
1D3003	Hydranautics ESPA® 1 8040
1D3004	Hydranautics ESPA® 2 4040
1D3005	Hydranautics ESPA® 2 8040
1D3006	Hydranautics ESPA® 3 4040
1D3007	Hydranautics ESPA® 3 8040
1D3008	Hydranautics CPA® 2 4040
1D3009	Hydranautics CPA® 2 8040
1D3010	Hydranautics CPA® 3 8040
1D3011	Hydranautics CPA® 4 8040
1D3012	Hydranautics LFC® 1 4040
1D3013	Hydranautics LFC® 1 8040
1D3014	Hydranautics LFC® 3 4040
1D3015	Hydranautics LFC® 3 8040
1D3016	Hydranautics SWC® 1 2540
1D3017	Hydranautics SWC® 1 4040
1D3018	Hydranautics SWC 1-8040
1D3019	Hydranautics SWC 3-8040

Part Number:	Description:
1D3020	Hydranautics SWC 4-8040
1D3021	Hydranautics ESNA® 1 4040
1D3022	Hydranautics ESNA® 1 8040
1D3023	Koch/Fluid Systems 4040HR
1D3024	Koch/Fluid Systems 4820HR
1D3025	Koch/Fluid Systems 8822HR-365
1D3026	Koch/Fluid Systems 8822HR-400
1D3027	Koch/Fluid Systems 8832HR575 MAGNUM
1D3028	Koch/Fluid Systems ROGA 4221HR
1D3029	Koch/Fluid Systems ROGA 8221HR
1D3030	Koch/Fluid Systems ROGA 8231HR MAGNUM
1D3031	Koch/Fluid Systems 4040ULP
1D3032	Koch/Fluid Systems 8823 ULP-400
1D3033	Koch/Fluid Systems 8833 ULP-575 MAGNUM
1D3034	Koch/Fluid Systems 2540 SW HF
1D3035	Koch/Fluid Systems 1820SS
1D3036	Koch/Fluid Systems 2822SS
1D3037	Koch/Fluid Systems 2832SS-465 MAGNUM

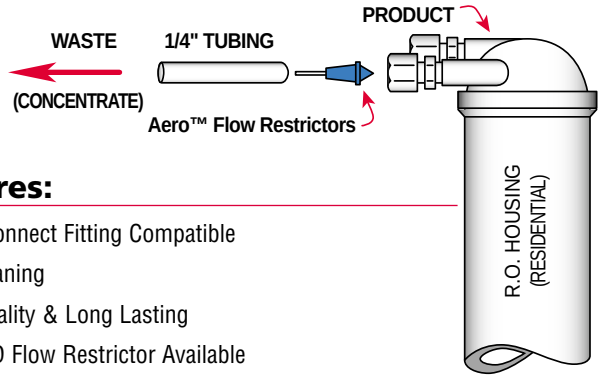
Specialty Membrane Elements

Part Number:	Description:
1D4001	2013 TFC Culligan® Style Membrane Element
1D4002	2026 TFC Culligan® Style Membrane Element
1D4003	3011 TFC Membrane Element
1D4004	3011 NANO Membrane Element
1D4005	3218 TFC HR1 Membrane Element
1D4006	3218 TFC HF3 Membrane Element

Aero™ Flow Restrictors

Aero™ Flow Restrictors are made from high quality Delrin material for improved, long lasting quality.

Specifications			
Part Number:	Color Code	Capillary Size	Membrane Size
1D5001	Red	125 ml p/min	10 GPD
1D5002	Red	125 ml p/min	12 GPD
1D5003	Brown	189 ml p/min	18 GPD
1D5004	Black	263 ml p/min	25 GPD
1D5005	Yellow	368 ml p/min	35 GPD
1D5006	Green	525 ml p/min	50 GPD
1D5007	Blue	735 ml p/min	70 GPD
1D5008	White	1050 ml p/min	100 GPD



Features:

- » Quick Connect Fitting Compatible
- » Self-Cleaning
- » High Quality & Long Lasting
- » 150 GPD Flow Restrictor Available

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RESIDENTIAL

Eliminator II™ Residential Membrane Housings

Eliminator II™ Residential Membrane Housings are an absolute favorite among customers who manufacture or service residential reverse osmosis systems. Eliminator II™ housings feature a new and improved design, a built-in automatic shut-off valve, built-in check valve, and hand tightening fittings with color-coded nuts. Not only do these housings have cost saving features but they outperform the competition, improve the efficiency and look of the system. Eliminator II™ housings have a patented design and offer a cost effective solution for your water purification needs.

Eliminator II™ housings are offered in additional styles and with accessories such as, no automatic shut-off valve, drilled and tapped housing, and a feed pressure gauge.

Features:

- Built-In Automatic Shut-Off Valve
- Automatic Shut-Off Valve Protective Screen
- Built-In Check Valve - Rated #1 in The Industry
- Color Coded Fittings
- No Tools Needed For Assembly
- Consumer Friendly
- Fits all Standard Membrane Elements

Specifications:

- FDA Approved Materials
- NSF Approved Materials
- 1/4" Connections

Membrane Housings / Residential

Part Number:	Description:
1E1001	2012 Standard Membrane Housing
1E1002	Eliminator II Membrane Housing w/ Automatic Shut-Off Valve 1/4" FNPT Connections
1E1003	Eliminator II Membrane Housing w/o Automatic Shut-Off Valve 1/4" FNPT Connections
1E1004	Eliminator II Head w/ Automatic Shut-Off Valve 1/4" FNPT Connections
1E1005	Eliminator II Head w/o Automatic Shut-Off Valve 1/4" FNPT Connections
1E1006	Eliminator II Housing
1E1007	Eliminator II Housing w/ Pressure Gauge
1E1008	Eliminator II Pressure Gauge 1/4" MNPT

Membrane Housings / Commercial

Part No.:	Description:	Part No.:	Description:	Part No.:	Description:
1E2001	2514 Champ Housing 3/8" FNPT	1E2029	4080 Champ A Housing 3/4" FNPT	ACCESSORIES	
1E2002	2521 Champ Housing 3/8" FNPT	1E2030	4080 Champ A Housing 1" FNPT	1E3001	2.5" Champ Clamp
1E2003	2540 Champ Housing 3/8" FNPT	1E2031	4080 Champ A QuadraPort Housing 1/2" FNPT	1E3002	Champ 2.5" End Plug
1E2004	4014 Champ Housing 1/2" FNPT	1E2032	4080 Champ A QuadraPort Housing 3/4"	1E3003	Champ 2.5" Snap Ring
1E2005	4014 Champ Housing 3/4" FNPT	1E2033	4080 Champ A QuadraPort Housing 1"	1E3004	Champ 2.5" O-Ring Set
1E2006	4014 Champ Housing 1" FNPT	1E2034	40120 Champ Housing 1/2" FNPT	1E3005	4" Champ Saddle Clamp
1E2007	4021 Champ Housing 1/2" FNPT	1E2035	40120 Champ Housing 3/4" FNPT	1E3006	Champ 4" End Plug
1E2008	4021 Champ Housing 3/4" FNPT	1E2036	40120 Champ Housing 1" FNPT	1E3007	Champ 4" Snap Ring
1E2009	4021 Champ Housing 1" NPT	1E2037	40120 Champ QuadraPort Housing 1/2"	1E3008	Champ 4" O-Ring Set
1E2010	4040 Champ Housing 1/2" FNPT	1E2038	40120 Champ QuadraPort Housing 3/4"	1E3009	4" Gladiator Saddle Clamp
1E2011	4040 Champ Housing 3/4" FNPT	1E2039	40120 Champ QuadraPort Housing 1"	1E3010	Gladiator 4" End Plug
1E2012	4040 Champ Housing 1" FNPT	1E2040	40120 Champ A Housing 1/2" FNPT	1E3011	Gladiator 4" Snap Ring
1E2013	4040 Champ QuadraPort Housing 1/2" FNPT	1E2041	40120 Champ A Housing 3/4" FNPT	1E3012	Gladiator 4" O-Ring Set
1E2014	4040 Champ QuadraPort Housing 3/4" FNPT	1E2042	40120 Champ A Housing 1" FNPT	1E3013	2.5" PuroTech Clamp
1E2015	4040 Champ QuadraPort Housing 1"	1E2043	40120 Champ A QuadraPort Housing 1/2" FNPT	1E3014	PuroTech 2.5" End Plug
1E2016	4040 Champ A Housing 1/2" FNPT	1E2044	40120 Champ A QuadraPort Housing 3/4" FNPT	1E3015	PuroTech 2.5" C-Clamp w/ Bolts & Nuts
1E2017	4040 Champ A Housing 3/4" FNPT	1E2045	40120 Champ A QuadraPort Housing 1" FNPT	1E3016	PuroTech 2.5" O-Ring Set
1E2018	4040 Champ A Housing 1" FNPT	1E2046	2521 PuroTech SS Housing End Port 3/8" FNPT	1E3017	PuroTech 4" Saddle Clamp
1E2019	4040 Champ A QuadraPort Housing 1/2" FNPT	1E2047	2540 PuroTech SS Housing End Port 3/8" FNPT	1E3018	PuroTech 4" End Plug
1E2020	4040 Champ A QuadraPort Housing 3/4" FNPT	1E2048	4021 PuroTech SS Housing End Port 1/2" FNPT	1E3019	PuroTech 4" C-Clamp w/ Bolts & Nuts
1E2021	4040 Champ A QuadraPort Housing 1" FNPT	1E2049	4040 PuroTech SS Housing End Port 1/2" FNPT	1E3020	PuroTech 4" O-Ring Set
1E2022	4080 Champ Housing 1/2" FNPT	1E2050	4080 PuroTech SS Housing End Port 3/4" FNPT	1E3021	Desal Housing Female to Male "A" Adapter
1E2023	4080 Champ Housing 3/4" FNPT	1E2051	2521 PuroTech SS Housing Side Port 3/8" FNPT	1E3022	Fluid Systems Housing Female to Male "A" Adapter
1E2024	4080 Champ Housing 1" FNPT	1E2052	2540 PuroTech SS Housing Side Port 3/8" FNPT	1E3023	Osmonics Housing Female to Male "A" Adapter
1E2025	4080 Champ QuadraPort Housing 1/2"FNPT	1E2053	4021 PuroTech SS Housing Side Port 1/2" FNPT	1E3024	Trisep Housing Female to Male "A" Adapter
1E2026	4080 Champ QuadraPort Housing 3/4" FNPT	1E2054	4040 PuroTech SS Housing Side Port 1/2" FNPT	1E3025	Female to Male "A" Adapter Filmtec Style to Desal Style
1E2027	4080 Champ QuadraPort Housing 1" FNPT	1E2055	4040 Gladiator SS Housing Side Port 1/2" FNPT	1E3026	Filmtec Style Membrane Interconnector
1E2028	4080 Champ A Housing 1/2" FNPT				

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Membrane Housings

COMMERCIAL

Champ™ Commercial Membrane Housings

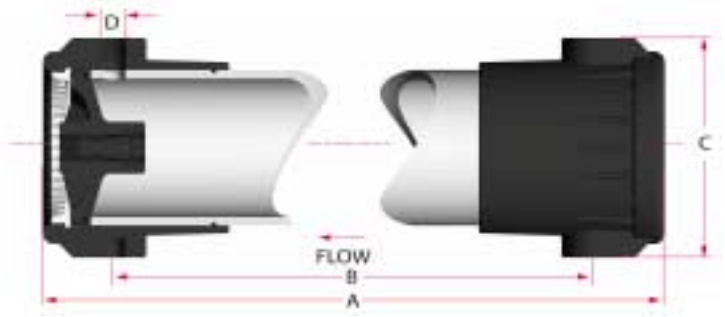
Champ™ Commercial Membrane Housings are distributed around the world and have been the preferred choice for water treatment systems for over 10 years. Each size of housing features a convenient side port entry and an easy removable end cap for ease of installation and maintenance. Champ™ housings have a patented design and offer a cost effective solution for your water purification needs. Champ™ housings come complete with everything for a quick and easy installation. Various accessories are available for Champ™ housings such as, membrane adapters, mounting saddle clamps, end plug wrenches, and o-ring replacement kits.

Features:

- No Tools Needed For Assembly
- Saves Assembly Time and Fittings
- Double Seals in Product Adapters
- Individually Inspected & Sanitized
- Champ™ A Housings Available
- Quadra Port Models Available
- 180° Rotated Ports Available
- Custom Sizing is Available

Specifications:

- NSF Approved PVC Material
- NSF Approved GTX Material
- FDA Approved EPR O-Rings
- Available with 3/8", 1/2", 3/4", & 1" Port Sizes



Dimensions (inches):

Description	Number of Membranes	A	B	C	D
2514 Champ™	1	17	14	3.75	3/8" –18 FNPT
2521 Champ™	1	24	21	3.75	3/8" –18 FNPT
2540 Champ™	1	43	40	3.75	3/8"–18 FNPT
4014 Champ™	1	19	14	6	1/2", 3/4", 1"–18 FNPT
4021 Champ™	1	26	21	6	1/2", 3/4", 1"–18 FNPT
4040 Champ™	1	45	40	6	1/2", 3/4", 1"–18 FNPT
4080 Champ™	2	85	80	6	1/2", 3/4", 1"–18 FNPT
40120 Champ™	3	125	120	6	1/2", 3/4", 1"–18 FNPT

PuroTech™ Commercial Membrane Housings

PuroTech™ Commercial Membrane Housings are offered in end entry or side port entry. These stainless steel pressure vessels have a very smooth and sleek look. Stainless steel will not be affected by ultraviolet rays, are lighter, and more durable than FRP housings. Equivalent in operating pressure ratings with FRP housings, PuroTech™ housings will not warp, crack, or weep. Their unique design will enhance your systems look, save you time, and money. These housings are priced very competitively with other stainless steel and fiberglass wrapped pressure vessels. PuroTech™ housings are a perfect fit for all male style membrane elements. PuroTech™ housings are sold complete with End Plugs, End Clamps, and O-Rings. Membrane element Interconnectors are sold separately.

Benefits:

- Universally Accepted Material for Water Treatment Systems
- Resistant to UV Rays and Sunlight
- Able To Withstand High Temperatures
- Capable of Supporting Process Piping
- Lighter Than FRP Housings

Features:

- 304L Stainless Steel Side Port Entry Connections
- Stainless Steel High Polished Exterior
- Electrically Resistant Welded Construction
- Double O-Rings for Sealing Integrity

Specifications:

- Maximum Operating Pressure: 300 psi
- 304L Stainless Steel
- 304L Stainless Steel End Clamp & Bolts
- ABS End Plug
- Buna-N O-Rings

Dimensions (inches):

Description	Number of Membranes	Diameter	Length	Feed	Waste	Product
2521 PuroTech™	1	2.5	23	3/8" FNPT	3/8" FNPT	3/8" FNPT
2540 PuroTech™	1	2.5	42	3/8" FNPT	3/8" FNPT	3/8" FNPT
4021 PuroTech™	1	4	23	1/2" FNPT	1/2" FNPT	1/2" FNPT
4040 PuroTech™	1	4	42	1/2" FNPT	1/2" FNPT	1/2" FNPT
4080 PuroTech™	2	4	82	1/2" FNPT	1/2" FNPT	1/2" FNPT

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SEDIMENTS / CARBONS / BAG FILTERS

Sediment Filters

Our 2.5" and 4.5" diameter **Sediment Filters** are manufactured from 100% pure polypropylene fibers. Their colorless design is an economical solution to pre-filtration for many applications. Used widely as pre-filtration for reverse osmosis systems and post-filtration for GAC filters. They are also used in applications such as ice machines, food and beverage processing, and many other applications. Our Sediment Filters have true step filtration integrated in their design. Utilizing advanced filtration technology to create 4 separate layers of micron filtration, our outside-in flow allows the outer layer to trap the larger micron particles with a much lower pressure drop.

Sediment Filters Specifications

Part Number:	Diameter & Length	Micron Rating (Nominal)	Initial ΔP (psi) @ Flow Rate (GPM)
1F1001	10" Inline Sediment [25 pieces per case]		
1F1002	2.5" x 10"	1	.6 psi @ 5 gpm
1F1003	2.5" x 10"	5	.4 psi @ 5 gpm
1F1004	2.5" x 10"	10	.3 psi @ 5 gpm
1F1005	2.5" x 20"	1	.6 psi @ 10 gpm
1F1006	2.5" x 20"	5	.4 psi @ 10 gpm
1F1007	2.5" x 20"	10	.4 psi @ 10 gpm
1F1008	4.5" x 10"	25~1	1 psi @ 10 gpm
1F1009	4.5" x 10"	50~5	1 psi @ 10 gpm
1F1010	4.5" x 10"	75~10	1 psi @ 10 gpm
1F1014	4.5" x 20"	25~1	1 psi @ 20 gpm
1F1015	4.5" x 20"	50~5	1 psi @ 20 gpm
1F1016	4.5" x 20"	75~10	1 psi @ 20 gpm
Temperature Range: 40 °F to 145 °F (4.4 °C to 62.8 °F)			

Our 4.5" diameter **Pleated Sediment Filters** are manufactured from a polyester material. These premium high quality filters are made for long life and high dirt holding capacity. These filters can be cleaned and reused in most applications and micron ratings. Pleated Sediment Filters are ideal for the removal of sediment and turbidity for applications such as drinking water, food and beverage processing and pre-filtration and post filtration for reverse osmosis.

Pleated Sediment Filters Specifications

Part Number:	Diameter & Length	Micron Rating (Nominal)	Initial ΔP (psi) @ Flow Rate (GPM)
1F1011	4.5" x 10"	1	.5 psi @ 12 gpm
1F1012	4.5" x 10"	5	.3 psi @ 12 gpm
1F1013	4.5" x 10"	20	NA
1F1017	4.5" x 20"	1	.5 psi @ 18 gpm
1F1018	4.5" x 20"	5	.3 psi @ 18 gpm
1F1019	4.5" x 20"	20	NA
Temperature Range: 40 °F to 145 °F (4.4 °C to 62.8 °F)			

Carbons / Specialty & Custom Cartridges / Bag Filters

R.O. UltraTec carries a complete line of **Carbon Cartridges**, **Bag Filters** and **Multi-Cartridge Filters**. Our 2.5" and 4.5" **GAC Cartridges** are available in 10" or 20" lengths. Our 2.5" and 4.5" **Carbon Block Cartridges**, manufactured with high purity coconut shell activated carbon and are NSF approved. We have **KDF® / GAC Cartridges** available in 4.5" diameter. To raise the pH of permeate water from reverse osmosis systems use our **Calcite Cartridges**. Our **DI Cartridges** are fabricated with high grade resins for the highest purity water. We carry quality plastic **Refillable Cartridges** for activated carbon, calcite, and a variety of medias. **FSI Bag Filter Replacements** are made from polypropylene, non-inserted glazed felt and are one of the most versatile bags on the market. **Rosendale Bag Filter Replacements** are a high quality bag filter available in a variety of micron ratings. For help finding the right cartridge or filter, contact us today.

Part Number:	Description:
CARBONS	
1F2001	10" Inline Carbon [25 pieces per case]
1F2002	2.5" x 10" Slim Line GAC [25 pieces per case]
1F2003	2.5" x 10" Slim Line 10 Micron Carbon Block [20 pieces per case]
1F2004	2.5" x 20" Slim Line 10 Micron Carbon Block [20 pieces per case]
1F2005	4.5" x 10" Big Grey 10 Micron Carbon Block [9 pieces per case]
1F2006	4.5" x 20" Big Grey 10 Micron Carbon Block [9 pieces per case]
1F2007	2.5" x 10" Slim Line 5 Micron Carbon Block [20 pieces per case]
1F2008	2.5" x 20" Slim Line 5 Micron Carbon Block [20 pieces per case]
1F2009	4.5" x 10" Big Grey 5 Micron Carbon Block [9 pieces per case]
1F2010	4.5" x 20" Big Grey 5 Micron Carbon Block [9 pieces per case]
1F2011	4.5" x 10" KDF Carbon Cartridge
1F2012	4.5" x 20" KDF Carbon Cartridge
1F2013	4.5" x 10" Granulated Activated Carbon
1F2014	4.5" x 20" Granulated Activated Carbon
1F2015	4.5" x 10" Calcite Cartridge
1F2016	4.5" x 20" Calcite Cartridge

Part Number:	Description:
CARBONS (continued)	
1F2017	2.5" x 40" DI Cartridge
1F2018	2.5" x 10" Lead Removal Carbon PB1
1F2019	4.5" x 10" Refillable Cartridge
1F2020	4.5" x 20" Refillable Cartridge
BAG FILTERS	
1F3001	FSI 18" Bag Filter 1 Micron
1F3002	FSI 18" Bag Filter 5 Micron
1F3003	FSI 18" Bag Filter 10 Micron
1F3004	Rosendale 32" Bag Filter 10 Micron
1F3005	Rosendale 32" Bag Filter 25 Micron
MULTI-CARTRIDGE SEDIMENTS	
1F4001	30" Length Purtrex Cartridge Filter 5 Micron
1F4002	30" Length Purtrex Cartridge Filter 10 Micron
1F4003	40" Length Purtrex Cartridge Filter 5 Micron
1F4004	40" Length Purtrex Cartridge Filter 10 Micron

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DOUBLE O-RING HOUSING / BAG FILTER HOUSINGS / WRENCHES

Slim Line & Big Grey Filter Housings

Our 2.5" **Slim Line Filter Housings** are manufactured from reinforced polypropylene, FDA approved Styrene-Acrylonitrile or Lexan material and our 4.5" Big Grey Filter Housings are made out of polypropylene. Slim Line Filter Housings are available in 1/4", 3/8", 1/2", & 3/4" port sizes. Big Grey Filter Housings are available in 3/4" and 1" port sizes. Housings are available with pressure relief buttons as a special request. All filter housings feature a EPDM double o-ring seal for ensured sealing capabilities. Our filter housings have been designed with your application in mind and can fit almost any requirement. With thousands of filter housings in use around the world, we feel confident that our filter housings are #1 in the industry.

Materials of Construction:

- **Housing:** Polypropylene, San & Lexan
- **Caps:** Polypropylene
- **O-Rings:** EPDM
- **Maximum Temperature:** 125 °F (52 °C)
- **Maximum Pressure:** 125 psi (8.6 Bar)

Bag Filter Housings

Designed to accept a bag filter or cartridge filter, the 18" **FSI Bag Filter** allows you to choose the filter media and construction to precisely fit your needs. The 18" FSI Bag Filter is made from light weight polypropylene to accommodate a wide range of chemical resistance. The "clean walls" provide easy-to-clean internal surfaces and they also feature by-pass-free sealing. The specially developed lid-gasket enables lid sealing without the need for additional tools.

Rosedale's Generation II polypropylene filter housings incorporate a unique one piece, seamless body that can handle flows up to 100 gpm. It is rated to 100 psi @ 150° F and offers excellent resistance to corrosion.

FSI Technical Specifications:

- **Micron Rating:** 1,5, or 10 Micron Bag Filter
- **Piping Connections:** 2" FNPT
- **Housing Material:** Polypropylene w/ UV Stabilizer
- **Basket Material:** Natural Polypropylene
- **Lid Vent:** 1/4" NPT
- **Pressure Rating:** 90 PSI @110° F
- **Approximate Weight:** 10 lbs.

Rosendale Technical Specifications:

- **Element Size:** 10 and 25 Micron Bag Filter
- **Piping Connections:** 2" ANSI B16.5 FF Flange
- **Housing Material:** Glass Reinforced Polypropylene w/ UV Stabilizer
- **Basket Material:** Natural Polypropylene
- **Recommended Change Out:** 15 PSID
- **Pressure Rating:** 100 PSI @150° F
- **Approximate Weight:** 50 lbs.

Slim Line & Big Grey Filter Housing Wrenches

Our **Slim Line** & **Big Grey Filter Housing Wrenches** are made with strong, reinforced plastic for easy filter housing removal or tightening.

Part Number:	Description:
SLIM LINE	
1G1001	10" Slim Line Double O-ring Filter Housing 1/4" FNPT [12 pieces per case]
1G1002	10" Slim Line Double O-ring Filter Housing 3/8" FNPT [12 pieces per case]
1G1003	10" Slim Line Double O-ring Filter Housing 1/2" FNPT [12 pieces per case]
1G1004	10" Slim Line Double O-ring Filter Housing 3/4" FNPT [12 pieces per case]
1G1005	20" Slim Line Double O-ring Filter Housing 1/4" FNPT [6 pieces per case]
1G1006	20" Slim Line Double O-ring Filter Housing 1/2" FNPT [6 pieces per case]
1G1007	20" Slim Line Double O-ring Filter Housing 3/4" FNPT [6 pieces per case]
BIG GREY	
1G2001	10" Big Grey Double O-ring Filter Housing 3/4" FNPT [4 pieces per case]
1G2002	10" Big Grey Double O-ring Filter Housing 1" FNPT [4 pieces per case]
1G2003	10" Big Grey Double O-ring Filter Housing 1 1/2" FNPT
1G2004	20" Big Grey Double O-ring Filter Housing 3/4" FNPT [4 pieces per case]
1G2005	20" Big Grey Double O-ring Filter Housing 1" FNPT [4 pieces per case]
1G2006	20" Big Grey Single O-ring Filter Housing 1 1/2" FNPT
BAG FILTERS HOUSINGS	
1G3001	18" FSI Bag Filter 2" FNPT
1G3002	32" Rosendale Bag Filter 2" FNPT
MULTI-CARTRIDGE HOUSINGS	
1G4001	4 Round 10" Multi-Cartridge Housing w/ 4 Cart. 25 GPM 304L SS Clamp 2" FNPT
1G4002	4 Round 20" Multi-Cartridge Housing w/ 8 Cart. 50 GPM 304L SS Clamp 2" FNPT
1G4003	4 Round 30" Multi-Cartridge Housing w/ 12 Cart. 75 GPM 304L SS Clamp 2" FNPT
1G4004	4 Round 40" Multi-Cartridge Housing w/ 16 Cart. 100 GPM 304L SS Clamp 2" FNPT
1G4005	5 Round 20" Multi-Cartridge Housing w/ 10 Cart. 304L SS V-Band Clamp 2" FNPT
1G4006	5 Round 30" Multi-Cartridge Housing w/ 15 Cart. 100 GPM 304L SS Clamp
1G4007	5 Round 40" Multi-Cartridge Housing w/ 20 Cart. 150 GPM 304L SS Clamp
WRENCHES	
1G5001	Slim Line Filter Housing Wrench
1G5002	Big Grey Filter Housing Wrench

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PERMEATE & BOOSTER PUMPS / ACCESSORIES & KITS

Aquatec® Permeate & Booster Pumps

Aquatec® Permeate Pump Features:

- For membranes rated from 10 to 120 GPD
- Requires no electricity
- Pump powered by energy from brine normally lost to the drain
- Improves water quality
- Effective for inlet water pressure as low as 30 psi
- Fills product tank up to 5 times faster under normal use
- Saves 400% of waste water vs. conventional systems
- Allows smaller capacity membranes
- Increases membrane life
- Prevents "membrane TDS creep"
- Allows greater product tank pressure (90% of feed pressure)
- Compact size

6800 Series & 8800 Series Aquatec Booster Pump Features:

- Toughest, most durable pump on the market
- Adjustable maximum outlet psi (regardless of feed pressure)
- Expels trapped air (no more air locks)
- Can be mounted with pump head up or down
- More flow at extremely low inlet pressures
- New motor venting system to remove moisture
- EMI/RFI electronic noise suppression
- 100% final performance tested

Accessories & Kits:

- **Aquatec® Transformers:** Designed to provide the necessary power to Aquatec® pumps. Nominal primary voltages and frequencies, along with system feed, back pressures, and accessories will influence the transformer selection.
- **Aquatec® Tank Pressure Switch:** Able to turn off the booster pump when the tank is full. It should be mounted in-line, as close to the tank as possible. Closed switch is pre-set for various shut-off pressures.
- **Aquatec® Electronic Shut-Off Valve:** A normally closed precision solenoid valve that positively shuts off the feed-water. Can be activated by a pressure switch to open and close at desired holding tank pressure. The valve can be used alone or mounted in-line on the inlet feed-water side pump, and is powered by the pump's transformer. Available with .062" diameter orifice: low flow applications or .093" diameter orifice: high flow applications. Recommended flow rates are 0 -.5 GPM.
- **Aquatec® High Flow Electronic Shut-Off Valve:** Compact, industrial grade valve handles flows up to 3 GPM (11 LPM). Intended for flow ranges between .5 - 3 GPM. Fast acting; normally closed solenoid valve with a .315" orifice opening that positively shuts off feedwater. It has a 3/8" NPT port opening, and can be used with any of Aquatec's transformers.
- **Aquatec® Auto-Flush Timer Valve:** Assists the reverse osmosis membrane to perform with maximum efficiency for longer time periods. Designers recommend flushing reverse osmosis system on a regular basis. In addition, "brine to product" ratio can reduce, especially in low "TDS" applications, while maintaining or improving system "TDS" rejection rate and extending membrane sediment and carbon filter life.
- **Aquatec® 6800 Kit:** Features an Aquatec® 6800 Booster Pump, Aquatec® Tank Pressure Switch, and .8 amp Transformer.
- **Aquatec® 8800 Kit:** Features an Aquatec® 8800 Booster Pump, Aquatec® Tank Pressure Switch, and 2 amp Transformer.

Part Number:	Description:
PERMEATE & BOOSTER PUMPS	
1H1001	Aquatec Permeate Pump w/ Clip
1H1002	Aquatec Booster Pump 6800 w/ 1/4" JG Ports
1H1003	Aquatec Booster Pump 8800 w/ 1/4" JG Ports
1H1004	Aquatec Booster Pump 8800 w/ 3/8" JG Ports
ACCESSORIES & KITS	
1H2001	Aquatec 6800 .8 Amp 110 Volt 60 Hz 24 VAC Transformer
1H2002	Aquatec 6800 .8 Amp 220 Volt 50 Hz 24 VAC Transformer
1H2003	Aquatec 8800 2 Amp 110 Volt 60 Hz 24 VAC Transformer
1H2004	Aquatec 8800 2 Amp 220 Volt 50 Hz 24 VAC Transformer
1H2005	Aquatec Tank Pressure Switch 1/4" JG Ports 20-40 PSI
1H2006	Aquatec Tank Pressure Switch 3/8" JG Ports 20-40 PSI
1H2007	Aquatec Electronic 24 Volt Shut-Off Valve 45 PSI .093 Diameter Orifice 1/4"
1H2008	Aquatec High Flow Electronic Shut-Off Valve
1H2009	Aquatec Double Wiring Harness
1H2010	Aquatec Auto-Flush Timer Valve 700 ml/min 1/4"
1H2011	Aquatec Kit 6800 Booster Pump, Pressure Switch, .8 Amp 110 Volt 60 Hz Transformer
1H2012	Aquatec Kit 8800 Booster Pump, Pressure Switch, 2 Amp 110 Volt 60 Hz Transformer
ROTARY VANE PUMPS	
1H3001	Fluid O Tech 201 Rotary Vane Pump 2 GPM
1H3002	Fluid O Tech 211 Rotary Vane SS Pump 2 GPM

Part Number:	Description:
ROTARY VANE PUMPS (continued)	
1H3003	Fluid O Tech 401 Rotary Vane Pump 2.3 GPM
1H3004	Fluid O Tech 411 Rotary Vane SS Pump 2.3 GPM
1H3005	Fluid O Tech 601 Rotary Vane Pump 3 GPM
1H3006	Fluid O Tech 611 Rotary Vane SS Pump 3 GPM
1H3007	Fluid O Tech 1001 Rotary Vane Pump 5.3 GPM
1H3008	Fluid O Tech 1011 Rotary Vane SS Pump 5.3 GPM
1H3009	Fluid O Tech 400 Series Rebuild Kit
1H3010	Fluid O Tech 600 Series Rebuild Kit
1H3011	Fluid O Tech 1000 Series Rebuild Kit
MULTI-STAGE BOOSTER PUMPS	
1H4001	Goulds 1 HP Multi-Stage Pump & Motor 1 Phase
1H4002	Goulds 1.5 HP Multi-Stage Pump & Motor 1 Phase
1H4003	Goulds 3 HP Multi-Stage Pump & Motor 1 Phase
1H4004	Goulds 3 HP Multi-Stage Pump & Motor 3 Phase
1H4005	Goulds 3/4 HP Booster Pump
1H4006	Goulds 1 HP Booster Pump
ODP & TEFC MOTORS	
1H5001	GE 1/3 HP Motor 110/220 Volt
1H5002	GE 1/2 HP Motor 110/220 Volt
1H5003	GE 3/4 HP Motor 110/220 Volt
1H5004	Leeson 3/4 HP Motor 220 Volt
1H5005	Leeson 1 HP Motor 220 Volt
1H5006	56C Face Adapter w/ Allen Bolts

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ROTARY VANE PUMPS / MULTI-STAGE & BOOSTER PUMPS

Fluid-O-Tech® Rotary Vane Pumps

Fluid-O-Tech® rotary vane pumps are manufactured from brass featuring a stainless steel AISI 303 or 304 rotor. The pumping chamber and vanes are graphitic carbon. The pumps offer various flow rates (shown below). The inlet/outlet ports are threaded 3/8" NPT. Pumps are equipped with built-in by-pass; a special balanced by-pass (able to maintain set pressure for variation of the inlet pressure).

Specifications:

Part Number:	Pump Model:	Material Type:	Flow (GPM) @ 150 psi:	Port Size:	Recommended Motor:	Weight (Lbs):
1H3001	201	Brass	1.4	3/8" FNPT	1/3 HP	2.5
1H3002	211	Stainless Steel	1.4	3/8" FNPT	1/3 HP	2.5
1H3003	401	Brass	2.3	3/8" FNPT	1/3 HP	2.5
1H3004	411	Stainless Steel	2.3	3/8" FNPT	1/3 HP	2.5
1H3005	601	Brass	3	1/2" FNPT	1/2 or 3/4 HP	2.5
1H3006	611	Stainless Steel	3	1/2" FNPT	1/2 or 3/4 HP	2.5
1H3007	1001	Brass	5.3	1/2" FNPT	3/4 HP or 1 HP	2.5
1H3008	1011	Stainless Steel	5.3	1/2" FNPT	3/4 HP or 1 HP	2.5
1H3009	Fluid-O-Tech 400 Series Rebuild Kit					
1H3010	Fluid-O-Tech 600 Series Rebuild Kit					
1H3011	Fluid-O-Tech 1000 Series Rebuild Kit					

Booster Pumps

Goulds Booster Pumps are a close coupled, end suction, multistage centrifugal pump for general liquid transfer service, booster applications, etc. Liquid-end construction is all AISI Type 316 stainless steel, stamped and welded. Impellers are fully enclosed, non-trimmable to intermediate diameters. Casings are fitted with diffusers for efficiency and for negligible radial shaft loading. All units have NEMA 48Y or 56Y motors with square flange mounting and threaded shaft extension.

Features:

- Close coupled, space saving design provides easy installation.
- Fabricated 316L stainless steel, end suction top discharge, case drain/ vent provided as standard.
- Enclosed impellers with unique floating seal ring design maintains maximum efficiencies over the life of the pump without adjustment.
- Mechanical seal has carbon/silicon carbide faces, 316 series stainless steel metal components and EPR elastomer. Optional elastomers available.

Pump Specifications:

- **Capacities to:** 38 GPM (8.8 m3/hr)
- **Heads to:** 239 feet (73 meters)
- **Pipe Connections:** 1 x 1 1⁄4 NPT
- **Working pressure to:** 125 PSI (8 bar)
- **Maximum temperature to:** 230º F (110º C)
- **Rotation:** Right hand/clockwise as viewed from drive end.
- **Motors:** NEMA standard open drip proof, totally enclosed fan cooled enclosures. Rugged ball bearing design for continuous duty under all operating conditions.

Multi-Stage Pumps

Goulds Multi-Stage Pumps are available in horizontal and vertical configuration high pressure pumps for water boost applications in both surface and tank mount environments. Stainless steel or cast iron construction with variable suction and discharge orientation. Flows to 350 GPM and 800 feet TDH. Designed to handle a wide range of filtration, pressure boost, wash system and boiler feed applications.

Features:

- **Multi-stage Design:** Steady, quiet, vibration free, operation.
- **Optional Stainless Steel Construction:** Standard cast iron for general service or stainless for filtration applications.
- **O-Ring Casing Seal:** Reliable high pressure sealing with easy disassembly for maintenance or repair.
- **Impellers & Diffusers:** Glass-filled engineered composite material with fixed impeller design. Corrosion and abrasion resistant.
- **Bowls:** 300 stainless steel rabbit lock for positive alignment with no gaskets required.
- **Variable Capacity:** Booster pump design permits selection of flow within a range for each size.
- **Mechanical Seal:** A variety of face materials and elastomers to match application needs.
- **Motors:** Close coupled NEMA 56J motors in open drip proof or totally enclosed design. Single phase and three phase available. Ball bearings carry all radial and axial thrust loads. Designed for continuous operation.

Pump Specifications:

- **Maximum suction (inlet) pressure:** 75 PSI.
- **Maximum Liquid Temperature:** 160º F (71º C).
- **Rotation:** Clockwise when viewed from motor end.
- **Maximum lift with foot valve:** 10 ft. check NPSH curve.

Motor Specifications:

- NEMA standard 56J frame.
- Open drip proof or totally enclosed fan cooled enclosures available as standard. Consult factory for other options.
- 60 Hz, 3500 RPM. Single phase (115/230 V), three phase 208-230 (3 HP, 230 V) or three phase (208-230/ 460 V).
- Single phase motors have built-in capacitor and overload with automatic reset.

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ODP & TEFC Motors

Reversible rotation by easy reconnection. Direct replacements for most carbonator pump motors. Specially designed end shield has extended hub and short, slotted shaft for close-coupling the carbonator pump to the motor.

These motors are used for liquid transfer pumps, vending machine pumps, and other close-coupling pump applications.

Specifications:

- **Type:** Split-Phase
- **Enclosure:** Open Drip proof
- **Mounting:** Extended Hub and Cradle or Rigid Base
- **Ambient:** 40 °C
- **Thermal Protection:** Auto
- **Bearings:** Sleeve
- **Rotation:** CW/CCW
- **Shaft:** 5/8" Slotted 1144 Steel
- **Voltage:** 110 or 220 50 or 60 Hertz

Leeson Motors

Specifications:

- **Horsepower:** 1
- **Voltage:** 110 60 Hertz
- **Amps:** 12
- **RPM:** 1725
- **Duty:** Continuous
- **Frame:** 56C
- **Enclosure:** Totally Enclosed Fan Cooled (TEFC)
- **Mounting:** Extended Hub and Cradle or Rigid Base
- **Adapter:** 56C Face Adapter Sold Separately

Brackets & Clips / Tanks

R.O. UltraTec carries a complete line of **Single, Double** and **Triple Brackets**, with **Single** and **Double Clips**. Our brackets are lightweight, non-corrosive powder coated metal or Poly Carbonate – glass reinforced plastic with a universal mounting design.

Our tanks are ideal for all applications and come in a variety of sizes. We carry **Atmospheric tanks**, **Metal** and **Fiberglass bladder tanks**.

Brackets & Clips		Tanks	
Part Number:	Description:	Part Number:	Description:
SINGLE BRACKETS		**BLADDER TANKS**	
1K1001	Single Slim Line Plastic Bracket	1M1001	PuroTech 3.2 Gallon Bladder Metal Tank
1K1002	Single Big Grey Metal Bracket	1M1002	PuroTech 10 Gallon Bladder Metal Tank
DOUBLE BRACKETS		1M1003	PuroTech 15 Gallon Bladder Metal Tank
1K2001	Double Slim Line Plastic Bracket	1M1004	RO Mate 4 Gallon Blue Fiberglass Tank
1K2002	Double Slim Line Plastic Bracket w/ Clips	1M1005	RO Mate 20 Gallon Blue Fiberglass Tank
1K2003	Double Big Grey Metal Bracket	1M1006	RO Mate 40 Gallon Blue Fiberglass Tank
TRIPLE BRACKETS		1M1007	RO Mate 80 Gallon Blue Fiberglass Tank
1K3001	Triple Slim Line Plastic Bracket	1M1008	Goulds V250 80 Gallon Metal Bladder Tank
1K3002	Triple Slim Line Plastic Bracket w/ Clips	1M1009	PuroTech 20 Gallon Bladder Metal Tank
1K3003	Triple Slim Line Metal Bracket for Pump	**ATMOSPHERIC TANKS**	
1K3004	Triple Big Grey Metal Bracket	1M2001	15 Gallon Atmospheric Tank
CLIPS		1M2002	35 Gallon Atmospheric Tank
1K4001	Single Clips	1M2003	305 Gallon Atmospheric Tank 16" Opening 45" x 49"
1K4002	Double Clips		

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Sterilight Ultraviolet Lights

Sterilight Ultraviolet Lights are specifically designed to treat microbiologically contaminated ground or surface waters. They offer a 4-log reduction (99.99%) in bacteria, virus and protozoan cysts (specifically Giardia lamblia and cryptosporidium). The Sterilight process is quick, simple, inexpensive and environmentally friendly as it does not add anything to your water and creates no disinfection by-products. Sterilight is the most ecological way of treating your water ... and all this just for pennies a day!

Specifications:

Part Number:	1J1001	1J1003	1J1005	1J1007
Output:	**2 GPM**	**5 GPM**	**8 GPM**	**12 GPM**
Dimensions: *Length:*	17"	21"	35"	37"
Width:	2.5"	2.5"	2.5"	3.5
Height:	2.5"	2.5"	2.5"	3.5
Cell Diameter:	2.5"	2.5"	2.5"	3.5
Shipping Weight:	6 lbs.	7 lbs.	10 lbs.	12 lbs.
Electrical Voltage:	110	110	110	110
Hertz:	50/60	50/60	50/60	50/60
Power Consumption (Watts):	19	26	39	42
Lamp Watts:	24	37	39	42
Maximum Operating Pressure:	125 psi	125 psi	125 psi	125 psi
Ambient Temperature:	36-104 °F	36-104 °F	36-104 °F	36-104 °F
Quartz Sleeve:	Yes	Yes	Yes	Yes
Inlet/Outlet Port Size:	1/2" MNPT	3/4" MNPT	3/4" MNPT	Combo 3/4" MNPT & 1" MNTP
Visual "Power On"	Yes	Yes	Yes	Yes
Audible Lamp Failure:	Yes	Yes	Yes	Yes
Reactor Chamber Material:	304 SS	304 SS	304 SS	304 SS

Chem-Tech Chemical Injection Pumps

The **Chem-Tech Series 100** diaphragm pump is lightweight, heavy-duty, and fully adjustable. This pump is offered in 110 or 220 volt, 60 hz, 15 GPD, and 100 psi.

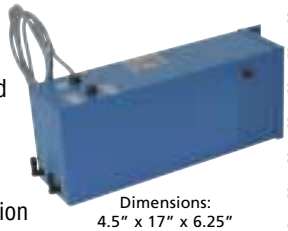
Series 100 is diaphragm-type metering pump. A fluid is pumped from a chemical storage tank to the point of injection by the pulsing action of the diaphragm. The four check valves (top and bottom of pump head, strainer assembly, and injection assembly) keep the fluid flowing toward the point of discharge. To insure that the solution being pumped only goes forward, it is important that all check valves provide a positive, non-leaking backflow prevention.

The wetted end (those parts that contact the solution being pumped) is constructed of SAN, PVC, teflon, hypalon, and polyethylene. These materials are very resistant to most chemicals. Contact us today for pricing and availability!

Ozotech Ozone Generator

Benefits:

- Compact Size
- High Reliability
- Lightweight and Corrosion Resistant
- Simple and Reliable Operation
- Easy to Service



Dimensions:
4.5" x 17" x 6.25"
Weight: 11 lbs.

Features:

- 1 GPM Flow Capacity
- Patented "Cold Spark" corona discharge
- Safety interlock switch
- Field serviceable corona cells
- CSA & NRTL/C approved
- Wall mountable
- Lightweight aluminum chassis

Part Number:	Description:
ULTRAVIOLET LIGHTS	
1J1001	Sterilight 2 GPM 110 Volt 60 Hz Ultraviolet Light
1J1002	Sterilight 2 GPM 220 Volt 50 Hz Ultraviolet Light
1J1003	Sterilight 5 GPM 110 Volt 60 Hz Ultraviolet Light
1J1004	Sterilight 5 GPM 220 Volt 50 Hz Ultraviolet Light
1J1005	Sterilight 8 GPM 110 Volt 60 Hz Ultraviolet Light
1J1006	Sterilight 8 GPM 220 Volt 50 Hz Ultraviolet Light
1J1007	Sterilight 12 GPM 110 Volt 60 Hz Ultraviolet Light
1J1008	Sterilight 12 GPM 220 Volt 50 Hz Ultraviolet Light
1J1009	Sterilight Ultraviolet 2 GPM Replacement Sleeve
1J1010	Sterilight Ultraviolet 5 GPM Replacement Sleeve
1J1011	Sterilight Ultraviolet 8 GPM Replacement Sleeve
1J1012	Sterilight Ultraviolet 12 GPM Replacement Sleeve

Part Number:	Description:
ULTRAVIOLET LIGHTS (continued)	
1J1013	Sterilight Ultraviolet 2 GPM Replacement Lamp
1J1014	Sterilight Ultraviolet 5 GPM Replacement Lamp
1J1015	Sterilight Ultraviolet 8 GPM Replacement Lamp
1J1016	Sterilight Ultraviolet 12 GPM Replacement Lamp
1J1017	Sterilight Ultraviolet 110 Volt 60 Hz 24 VAC Transformer
1J1018	Sterilight Ultraviolet 220 Volt 50 Hz 24 VAC Transformer
OZONE GENERATORS	
1J2001	Ozotech Ozone Generator 1 GPM 110 Volt
1J2002	Ozotech Ozone Generator 1 GPM 220 Volt
CHEMICAL INJECTION PUMPS	
1J4001	Chem-Tech Chemical Injection Pump 15 GPD 110 Volt
1J4002	Chem-Tech Chemical Injection Pump 15 GPD 220 Volt

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DIGITAL METERS / FLOW METERS / GAUGES

Our handheld TDS meters, in-line monitors, controllers and demonstration devices for reverse osmosis water filtration and water purification systems are superior in construction and performance, yet made available at a very economic cost. Our economical in-line dual TDS meters that measure total dissolved solids (TDS) levels of feed and product water lines simultaneously, are an effective way to compare rejection rates and gauge reverse osmosis membrane and water filtration performance.

ABB Water Meter

A positive displacement meter operating with an oscillating piston. Water rotates the piston in a measuring chamber. Each piston revolution is equivalent to a water volume. The piston movement is transferred by appropriate reduction gearing and magnetic drive to a straight reading sealed register.

Specifications:

- **Size:** 5/8" x 3/4"
- **Flow Range:** 1/8 – 20
- **Recommended Continuous Flow:** 15 gpm
- **Maximum Temperature:** 120 °F
- **Maximum Working Pressure:** 150 psi
- **Length:** 7.5"
- **Width:** 4"
- **Height (Lid Closed):** 5.5"
- **Weight:** 3.5"

PuroTech™ Flow Meters

These flow meters have consistent quality with unparalleled performance and are low cost. **PuroTech™ Flow Meters** feature easy-to-read scales, silk-screened onto the tough polycarbonate bodies, which are extremely accurate. These meters are durable, attractive, with low cost construction, and practically unbreakable bodies.

Part Number:	Flow Rate:	Adapter Size:	Center-To-Center Dimensions:
1N2002	.2-2 GPM	3/8" MNPT	5"
1N2003	1-5 GPM	1/2" MNPT	5"
1N2004	1-10 GPM	1" MNPT	6.5"
1N2005	2-20 GPM	1" MNPT	6.5"

PuroTech™ Gauges

PuroTech™ Gauges are constructed of stainless steel casings. Gauges are glycerin filled, calibrated to indicate psi/kg and are designed to measure up to 300 psi. Panel mount and top mount styles are available.

Specifications:

- 304 Stainless Steel
- 2.5" Diameter
- Acrylic Window
- psi/bar Indicator
- 1/4" MNPT

R&D Specialties Computer Controllers

We offer the **Minitrol**, **Minitrol IF**, and the **Rotrol S-150** computer controllers from R&D Specialties. They are the leading U.S. manufacturer of microprocessor-based controllers utilized for Reverse Osmosis systems.

Part Number:	Description:
DIGITAL METERS	
1N1001	Hanna pH Hand Held Meter
1N1002	TDS Hand Held TDS Meter w/ Vinyl Case TDS-3
1N1003	Panel Mount TDS Controller PS-100
1N1004	Inline Dual TDS Meter w/ 1/4" Quick Connects DM-1
1N1005	Panel Mount Conductivity Controller PC-100
1N1006	Pocket Size TDS Meter TDS-4
1N1007	Pocket Size TDS Meter w/ Thermometer TDS-4TM
1N1008	Industrial Dual TDS Meter DM-2
1N1009	Clean Tap Monitor CT-1
1N1010	Dual TDS Controller PS-200
1N1011	Dual Display TDS Controller PS-202
1N1012	Digital Thermometer TM-1
1N1013	Precipitator w/ Case & Spare Rods
1N1014	Precipitator w/ Case

Part Number:	Description:
DIGITAL METERS	
1N1015	Sprite TDS Meter w/ Case
1N1016	Myron L Ultrameter 4P
FLOW METERS	
1N2001	ABB Water Meter 3/4" FNPT
GAUGES	
1N3001	0-160 PSI Top Mount Stainless Steel Gauge
1N3002	2.5" 0-350 PSI Top Mount Stainless Steel Glycerin Filled Gauge
1N3003	2.5" 0-300 PSI Panel Mount Stainless Steel Glycerin Filled Gauge
COMPUTER CONTROLLERS	
1N4001	Minitrol Computer 110 Volt
1N4002	Minitrol Computer 220 Volt
1N4003	Minitrol IF Computer 110 Volt
1N4004	Minitrol IF Computer 220 Volt
1N4005	Rotrol S-150 Computer 220 Volt

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VARIOUS FITTINGS & VALVES

Needle Valves

Panel mountable, two-piece design for flexibility during installation. Its packing provides leak-tight double sealing with low operating torque and the safety back-seating prevents accidental removal of the stem.

Benefits:

- Leak-tight performance with low operating torque
- Easy installation and serviceability
- Use in a wider range of applications
- Flexibility in installation

Features:

- 300 Series Stainless Steel
- Available in 1/2" FNPT
- Positive Drive Hand Bar
- High Pressure/Temperature Capability
- 100% Tested

Part Number:	Description:
PUSH/PULL FITTINGS	
1P1001	Male Elbow 1/4" x 1/8"
1P1002	Male Elbow 1/4" x 1/4"
1P1003	Male Elbow 3/8" x 1/4"
1P1004	Tee Union 1/4" x 1/4" x 1/4"
1P1005	Tee Union 3/8" x 3/8" x 1/4"
1P1006	Tee Union 3/8" x 3/8" x 3/8"
1P1007	Elbow Union 3/8" x 3/8"
1P1008	Elbow Union 3/8" x 1/2"
1P1009	Stem Union Elbow 1/4" x 1/4"
1P1010	Stem Union Elbow 3/8" x 1/4"
1P1011	Stem Union Elbow 3/8" x 3/8"
1P1012	Stem Union 3/8" x 3/8"
1P1013	Stem Reducer 3/8" x 1/4"
1P1014	Male Connector 1/4" x 1/4"
1P1015	Male Connector 3/8" x 1/4"
1P1016	2 Way Divider 3/8" x 3/8"
1P1017	Reducing Union 1/4" x 3/8"

Part Number:	Description:
COMPRESSION FITTINGS	
1P2001	Male Elbow 1/4" x 1/8" (No Nut)
1P2002	Male Elbow 1/4" x 1/4" $ 2.73
1P2003	Male Elbow 1/2" x 1/2" $ 3.26
1P2004	Tee Union 1/4" x 1/4" x 1/4"
1P2005	Male Elbow 3/8" x 1/4"
1P2006	Male Connector 1/4" x 1/4"
1P2007	Male Connector 3/8" x 3/8"
1P2008	Male Connector 3/8" x 1/2"
BALL VALVES	
1P3001	1/2" White Slip Ball Valve
1P3002	1" White Slip Ball Valve
1P3003	1" FNPT Brass Ball Valve
UNION FITTINGS	
1P4001	3/4" Grey Slip Union
1P4002	3/4" FNPT Grey Threaded Union
1P4003	1" Grey Slip Union
1P4004	1" FNPT Grey Threaded Union

Part Number:	Description:
CHECK VALVES	
1P5001	3/8" FNPT Brass Check Valve
1P5002	1/4" x 1/4" FNPT John Guest Check Valve
1P5003	3/4" x 3/8" FNPT PVC Check Valve
1P5004	1/2" x 1/2" FNPT PVC Check Valve
1P5005	3/4" x 3/4" FNPT PVC Check Valve
1P5006	1" x 1" FNPT PVC Check Valve
1P5007	3/8" x 3/8" FNPT PVC Check Valve
NEEDLE VALVES	
1P6001	1/4" FNPT Brass Needle Valve
1P6002	3/8" FNPT Stainless Steel Needle Valve
1P6003	1/2" FNPT Hoke Brass/Stainless Steel Needle Valve
1P6004	1/2" FNPT Stainless Steel Needle Valve
1P6005	3/4" FNPT Stainless Steel Needle Valve

Chemicals

We offer a complete line of cleaning agents to keep your Reverse Osmosis Units running efficiently.

- **Pro-Citric Acid™:** Contains citric acid and is non-toxic, non-corrosive, biodegradable, and is used to neutralize bases (pH adjustment) with little odor and no fumes.
- **Pro-Poly™:** Sequesters iron and manganese reducing iron staining in potable water, irrigation systems. Pro-Poly also helps prevent corrosion through the water system.
- **Pro-Soda Ash ™:** Alkaline compound which neutralizes acid found in some water systems, helping eliminate corrosion, giving your system longer life.
- **Pro-Pot Perm ™:** A strong oxidizing agent that converts dissolved iron and/or manganese into insoluble oxides, which can be easily removed by filtration.

Part Number:	Description:
1J3001	Citric Acid 4 lbs. Per Bottle
1J3002	Polyphosphate 5 lbs. Per Bottle
1J3003	Soda Ash 4 lbs. Per Bottle
1J3004	Potassium Permanganate 5 lbs. Per Bottle

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ADAPTERS, VALVES, & FLOATS

Adapters, Strainers, Switches & Solenoids

At R.O. UltraTec, we carry a variety of components and installation supplies.

- **Dayton White Float Switch (Dry Contacts):** Liquid level switch
- **Dayton Normally Open Float Switch:** Heavy duty float switch
- **Dayton Normally Closed Float Switch:** Normally Closed Float Switch
- **1/4" FNPT Mechanical Copper Float Switch:** PVC body and float arm, HDPE (polyethylene) float, and 18-8 stainless steel hardware. Available in fixed and adjustable arm styles. Both styles are tank mountable.
- **McCanns Low Pressure Switch:** Safety device to protect the pump from running dry.
- **Square D High Pressure Switch:** Automatically starts when the tank pressure falls below 40 psi and stops when the pressure reaches 60 psi.
- **Square D Low Pressure Switch:** Safety device to protect the pump from running dry.
- **Solenoid Valves:** Allow maximum water flow over a wide range of pressures.
- **Pressure Regulators:** Regulate water pressure to a safe level. Works with any water purification system where line pressure is high or unstable.
- **Tubing, Connectors, & Accessories:** High pressure tubing and stainless steel corrugated flexible water connectors for water heaters, boilers, softeners, lavatory and water closet supply.
- **Faucets:** Non-air gap faucet, long reach air gap faucet & adapter kit available.

Part Number:	Description:
ADAPTERS, VALVES & FLOATS	
1R1001	1/4" FNPT Drain Saddle Valve
1R1002	3/8" FNPT Drain Saddle Valve
1R1003	1/2" x 1/2" x 1/4" FNPT Brass Feed Water Adapter
1R1004	DMFit White Automatic Shut-Off Valve 1/4" Push/Pull
1R1005	White Automatic Shut-Off Valve 1/4" Compression
1R1006	Dayton White Float Switch (Dry Contacts)
1R1007	Dayton Normally Open Float Switch 110 Volt
1R1008	Dayton Normally Open Float Switch 220 Volt
1R1009	Dayton Normally Closed Float Switch 110 Volt
1R1010	Dayton Normally Closed Float Switch 220 Volt
1R1011	1/4" FNPT Mechanical Copper Automatic Shutoff Float
1R1012	1/4" FNPT Mechanical Plastic Automatic Shutoff Float
1R1013	1/4" FNPT 3.2 Gallon Tank Valve
STRAINERS	
1R2001	1/4" x 1/4" DMFit Push/Pull Black Filter Strainer
1R2002	3/8" x 3/8" DMFit Push/Pull Black Filter Strainer
1R2003	1/2" x 1/2" DMFit Push/Pull Black Filter Strainer
1R2004	1/2" x 1/2" FNPT Black Filter Strainer w/ Clear Cap
REGULATING SWITCHES & SOLENOIDS	
1R3001	Single Pole On/Off Switch 110 Volt
1R3002	Double Pole On/Off Switch 220 Volt
1R3003	Weather Proof Switch Box
1R3004	Switch Plate Cover
1R3005	Square D High Pressure Switch 40/60
1R3006	Square D Low Pressure Switch 22/12
1R3007	McCanns Low Pressure Switch
1R3008	Solenoid Valve 24 Volt 1/4" FNPT
1R3009	Solenoid Valve 24 Volt 1/2" FNPT
1R3010	Solenoid Valve 110 Volt 1/2" FNPT
1R3011	Solenoid Valve 220 Volt 1/2" FNPT
1R3012	Solenoid Valve 110 Volt 3/4" FNPT

Part Number:	Description:
REGULATING SWITCHES & SOLENOIDS (cont.)	
1R3013	Solenoid Valve 220 Volt 3/4" FNPT
1R3014	Solenoid Valve 110 Volt 1" NPT
1R3015	Solenoid Valve 220 Volt 1" FNPT
PRESSURE REGULATORS	
1R4001	Black Plastic Regulator Max. In/Out 150 psi/125 psi
1R4002	White Plastic Regulator w/ Push Pull Fittings
1R4003	Bronze Heavy Duty Regulator w/ 3/4" FNPT Max. 300 psi
1R4004	Bronze Heavy Duty Regulator w/ 1" FNPT Max. 300 psi
TUBING, CONNECTORS, & ACCESSORIES	
1R5001	Plastic 1/4" Insert
1R5002	Plastic 3/8" Insert
1R5003	Plastic 1/4" Ferrule
1R5004	Plastic 3/8" Ferrule
1R5005	1/4" John Guest White Tubing Per Foot
1R5006	1/4" John Guest Blue Tubing Per Foot
1R5007	1/4" John Guest Black Tubing Per Foot
1R5008	1/4" John Guest High Pressure Natural Tubing Per Foot
1R5009	3/8" Kuriyama Grey Tubing Per Foot
1R5010	3/8" John Guest Black Tubing Per Foot
1R5011	1/2" John Guest Black Tubing Per Foot
1R5012	5/8" Parker Black High Pressure Tubing Per Foot
1R5013	DMFit Black Tubing Cutter
1R5014	Falcon 12" Long SS Flexible Connector 1/2" FIP x 1/2" FIP
1R5015	Falcon 30" Long SS Flexible Connector 1/2" FIP x 1/2" FIP
1R5016	Falcon 18" Long SS Flexible Connector 3/4" FIP x 3/4" FIP
1R5017	Falcon 24" Long SS Flexible Connector 3/4" FIP x 3/4" FIP
FAUCETS	
1R6001	Long Reach Non-Air Gap Faucet
1R6002	Air Gap Adapter Kit
1R6003	Long Reach Air Gap Faucet

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NEW ACCOUNT APPLICATION FORM

When completed, mail or fax here

Fax: 760-728-5062
Mail: 541 Industrial Way, Suite 1 ■ Fallbrook, CA 92028

General Information

_____
- company name

_____
- first name - last name

Billing Information

_____
- address

_____
- city - state - zip code

_____
- country

Contact Information

_____
- telephone - fax - cell

_____
- email - website

Bank Information

_____
- business bank branch

_____
- account number - contact person

_____
- address

_____
- city - state - zip code

_____
- telephone - fax

Terms

In consideration of extending credit at my request, I (the above mentioned) hereby personally guarantee **R.O. UltraTec USA, Inc.** payment of any obligation of Company Name and I hereby agree to bind myself for payment of any unpaid debt including finance charges, shipping & handling and collection costs and/or attorney fees whenever the above applicant shall default on same. It is understood that this guarantee shall be continuing and irrevocable for Indebtedness of Company Name. I also acknowledge receipt of and agree to all "Terms and Conditions" of **R.O. UltraTec USA, Inc.**

❑ Agree ❑ Disagree

Credit Card Authorization (optional)

I hereby authorize **R.O. UltraTec USA, Inc.** to charge the following credit card(s) for any amount that is above our credit limit and/or for any invoice that is past due.

- card type: ❑ Visa ❑ Mastercard ❑ American Express

- card number: _____

- expiration day (mm/yy) _____ name on card _____

_____
- signature - title - date

_____
- if the business trade name is a dba, what is the legal title or corporate name?

_____
- federal tax id # or social security number

_____
- resale card # (california businesses only)

Shipping Information

_____
- address

_____
- city - state - zip code

_____
- country

Business Information

- general product(s) or service(s) supplied: _____

- business type:
❑ sole proprietorship ❑ partnership ❑ corporation

- date established: _____

- company type:
❑ manufacturer ❑ dealer ❑ distributor ❑ retailer ❑ other:

_____

- desired credit amount:_____

Trade References

_____
- name

_____
- address

_____
- city - state - zip code

_____
- telephone - fax

_____
- name

_____
- address

_____
- city - state - zip code

_____
- telephone - fax

_____
- name

_____
- address

_____
- city - state - zip code

_____
- telephone - fax

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PRODUCT ORDER FORM

When completed, mail or fax here

Fax: 760-728-5062
Mail: 541 Industrial Way, Suite 1 ■ Fallbrook, CA 92028

General Information

- company name

- first name - last name

Billing Information

- address

- city - state - zip code

- country

Contact Information

- telephone - fax - cell

- email - website

Shipping Information ❑ same as billing information

- address

- city - state - zip code

- country

- purchase order number

- date

Confirmation, Shipping and Billing Information

- how would you like to receive your order confirmation: ❑ Email ❑ Fax

- **shipping method:** ❑ UPS Next Day ❑ UPS 2nd Day ❑ UPS 3 Day ❑ UPS Ground
other freight (specify carrier/method): _____

- **billing options:** ❑ Net 30 ❑ COD ❑ Visa ❑ Mastercard ❑ American Express

card number: _____

- expiration day (mm/yy) _____ name on card _____

- signature - title - date

- **international orders:** ❑ wire transfer ❑ letter of credit ❑ credit card
❑ Visa ❑ Mastercard ❑ American Express

- card number: _____

- expiration day (mm/yy) _____ name on card _____

- signature - title - date

PART NUMBER	DESCRIPTION	QTY	UNIT PRICE	AMOUNT

SUBTOTAL	
SALES TAX	
SHIPPING	
TOTAL AMOUNT	

- signature - title

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TERMS AND CONDITIONS

Ordering:
Orders may be phoned in, faxed, or emailed to R.O. UltraTec USA, Inc. Purchase orders must include part numbers and pricing. Purchase orders must also state if partial shipments are allowed. If you do not have the correct part numbers, pricing, or case quantities, please contact our sales department.

Verbal orders or verbal changes to orders will be accepted only with the understanding that R.O. UltraTec USA, Inc. is not responsible and will not cover freight charges for returned merchandise. Furthermore, all merchandise returned for credit placed on verbal purchase orders are subject to a fifteen percent (15%) restocking charge unless confirmation has been received during work hours, prior to shipment.

Order Confirmations:
All purchase orders will be confirmed by phone, fax, or email. Any discrepancies in part numbers, pricing, descriptions, or case quantities will be listed in the order confirmation. It is the customer's responsibility to review the order confirmations and advise if any changes are to be made. If we do not hear from the customer regarding the confirmation in 72 hours, we will assume everything is correct and will invoice and ship accordingly.

Minimum Orders:
Minimum order accepted is $50.00, not including freight.

Prices:
Prices are subject to change or correction without notice.

Shipment:
Unless otherwise specified, all shipments shall be F.O.B. R.O. UltraTec USA, Inc.'s facility in Fallbrook, California.

Terms:
Terms of payment on open accounts, are net 30 days from the date of invoice. This agreement is subject to credit approval. Terms will not be extended to accounts with poor payment history or poor credit status. Terms will only be issued to companies which reside in the United States of America. Orders will not be shipped if any accounts are past due and/or until payments by check are cleared.

Interest will be charged on past due accounts. Interest charges will be calculated on the unpaid balance at 3% per month (36% per annum) or the maximum rate allowed by law, whichever is less. All questions regarding invoices and terms must be addressed with our accounting department before invoices become due.

Domestic Customer Pricing:
Payment is due within thirty (30) days from the date of invoice with a prior credit approval. Otherwise, payments are due prior to shipment by check, money order, wire transfer, or credit card. Credit cards that are accepted are Visa, MasterCard, and American Express. C.O.D. shipments are to be paid by cashier's check, money order, and accompanied with credit references.

International Customer Pricing:
All payments due are in U.S. dollars and must be made in advance by check (must clear before shipment), money orders, wire transfer, or credit card. Credit cards that are accepted are Visa, MasterCard, and American Express. Irrevocable Letters of Credit are accepted with a minimum order of $10,000.00 U.S. dollars, per order. Letters of credit must:

1. Be in favor of R.O. UltraTec USA, Inc.
2. Stipulate payment based on sight of shipping documents.
3. State all charges to be applied to buyer's account.
4. State F.O.B. point is ex-factory (additional banking & processing fees will be charged).

Unless specifically included as a separate item, prices quoted do not include any city, county, state or federal taxes, or transportation of merchandise.

Taxes:
Taxes are not included. Quoted prices are exclusive of all taxes. Purchaser shall be responsible for payment of all applicable state/local taxes. Orders shipped within California are subject to applicable state tax rates unless a completed resellers card or exempt certificate is on file.

Bank Information:
Contact us to request banking information.

Shipment:
The shipment method should be specified by the customer on the purchase order, otherwise, R.O. UltraTec USA, Inc. will choose the best method of shipment.

Packaging:
Pricing includes packaging that is satisfactory for air, ocean, truck, or containerized shipment at no additional cost, unless otherwise stated.

Will Call Orders:
All standard ordering terms apply to Will Call orders. The customer must advise what day and time they will pick up the order. Completed Will Call orders will be held for a maximum of 1 week. A restock charge may be assessed to any Will Call orders that are not picked up within the required time frame. Additions or deletions to Will Call orders after invoicing are subject to all new order Terms and Conditions. Orders are typically pulled within one working day. Will Call orders can be picked up Monday – Friday from 8:00am to 11:30am and from 1:30pm to 3:30pm.

Order Changes:
Additions to an order may be made at no charge prior to the processing of an order. Processing of an order typically begins within one hour of receipt of a purchase order and is typically accomplished within one working day. Deletion and/or changes to an order after it has been processed are subject to a $25.00 minimum handling fee. Changes may cause additional charges and may increase the time required to ship an order.

Orders placed but cancelled after the order has been processed and sent to shipping or engineering, will be subject to a minimum 10% cancellation fee ($50.00 minimum), assuming manufacturing has not commenced, and no detailed engineering or special parts have been ordered. Additional fees may be charged depending on the level of completion of detailed engineering and/or if any special parts have been ordered.

Freight Claims:
Shipments are the purchaser's responsibility. Freight claims must be made immediately and directly, in writing to R.O. UltraTec USA, Inc. R.O. UltraTec USA, Inc. will help as much as possible in settling claims. However, R.O. UltraTec USA, Inc. will not be held responsible for breakage or shortage after products are accepted by common carrier. All shipments must be inspected for damages and counted for shortages at the time of delivery. Any damage or discrepancy must be noted immediately.

Returns:
A Return Goods Authorization (RGA) number must be obtained from R.O. UltraTec USA, Inc. before any returns can be shipped or accepted. A Return Goods Authorization Form must be filled out completely and sent with the returned merchandise.

If your company is returning membranes for cleaning, please contact us for a Return Goods Authorization (RGA) number. Please fill out the Merchandise Return Form and return it with the membranes to be cleaned. Buyer shall inspect all goods immediately upon their delivery to the destination stated in the agreement and shall within ten (10) days provide written notice to R.O. UltraTec USA, Inc. at its principal place of business of any claim that the goods do not conform to the terms of the agreement. Special or custom ordered items are non-returnable.

All returns for warranty consideration must be shipped prepaid. Freight collect returns will not be accepted. Returns determined to be in warranty will be replaced or repaired, and will be returned to the purchaser prepaid by surface freight. All merchandise returned for credit, other than warranty claims, may be subject to a fifteen percent (15%) restocking charge.

Restock:
A minimum restocking charge of 15% or $50.00, whichever is higher may be charged. Orders shipped incorrectly are not subject to restock charges and correct items will be shipped prepaid by surface freight. All other returns are subject to the restock charge. Goods must be in the original packaging/container and in saleable condition to be considered for restocking.

NSF Checks:
There is a $25.00 charge for all NSF checks.

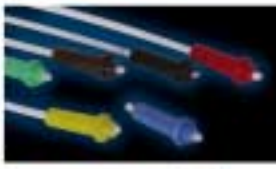
Excusable Delays:
R.O. UltraTec USA, Inc. shall not be in default for failure to deliver or delay in delivery arising out of causes beyond its control and without its negligence, including but not limited to Acts of God or the public enemy; acts of the Government in either its sovereign or contractual capacity; fires; floods; epidemics; quarantine restrictions; strikes; shortages of materials or supplies; labor disputes; freight embargoes; delays in transit; consignments lost or damaged by freight agent(s); and unusually severe weather.

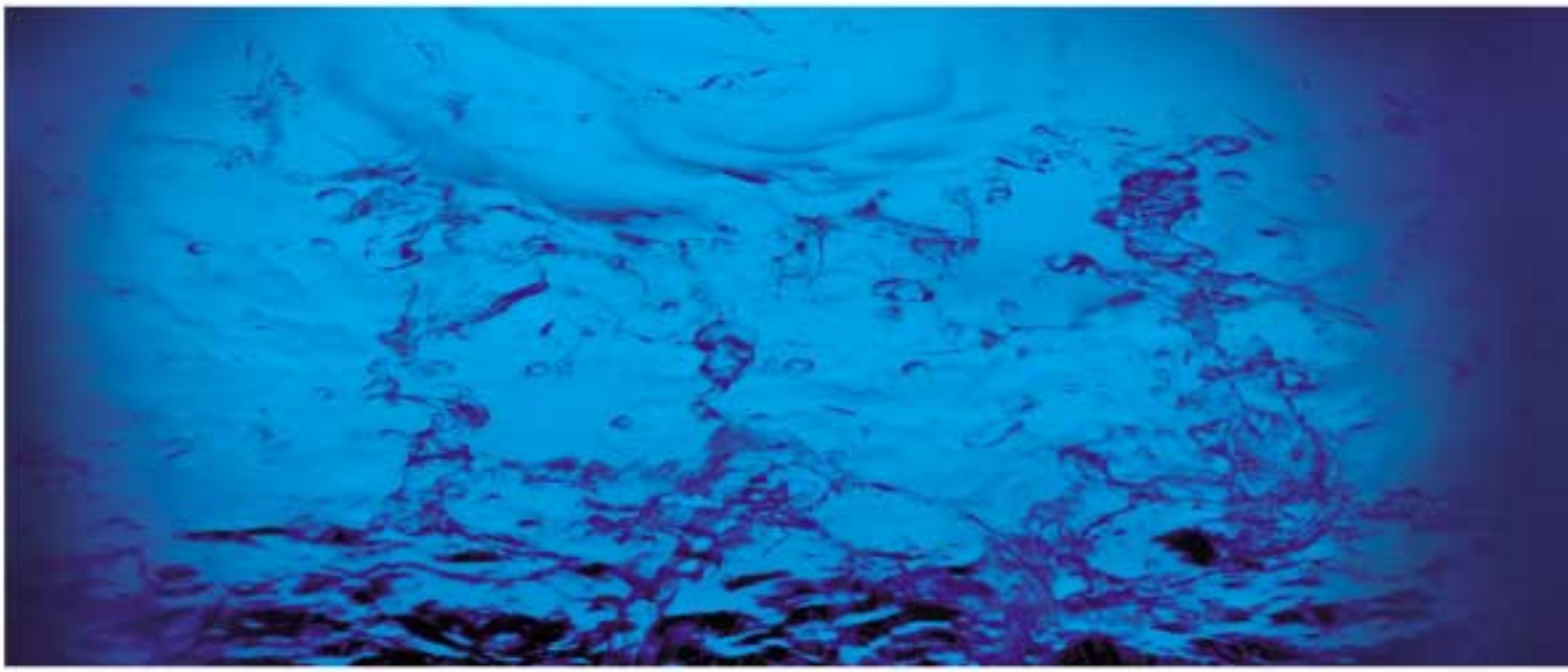
Warranties:
R.O. UltraTec USA, Inc. warrants that the material will conform to the description contained in the applicable specifications. R.O. UltraTec USA, Inc. makes no warranty, express or implied, of merchantability or of fitness for a particular end use. R.O. UltraTec USA, Inc.'s liability for breach of warranty is limited solely to the supply or repair or replacement of materials and R.O. UltraTec USA, Inc. shall not be held liable for consequential or incidental damages resulting to buyer or others from the furnishing or use of materials said to be defective.

Seller warrants that the use or sale of the products (or materials) delivered hereunder will not infringe the claims of any U.S. Patent covering the products themselves; but does not warrant against infringement by reason of the use thereof in combination with other products or in the operation of any process.

R.O. UltraTec USA, Inc.'s maximum total liability for all causes including any breach of warranty or failure to deliver conforming goods shall not exceed the value of the contract.

Policy:
These terms and conditions may be superseded by specific provisions provided by R.O. UltraTec USA, Inc. However, should any of these terms and conditions be contrary to or inconsistent with any terms and conditions contained in any purchase order form or other document between R.O. UltraTec USA, Inc. and the buyer, which is prepared by the buyer and whenever executed, the provisions hereof shall be controlling and shall supersede the conflicting terms and conditions which are contained in such other document. No changes shall be made to our terms and conditions unless prior written authorization by R.O. UltraTec USA, Inc.





RO UltraTec-USA®
The Ultra Solution

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- » Reverse Osmosis Systems
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